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1986 Annual Report

Vital Statistics of Massachusetts

Massachusetts Department of Public Health
Public Document No. 1



Deborah Prothrow-Stith, M.D.
Commissioner

The Commonwealth of Massachusetts

Executive Offices of Human Services Department of Public Health

*Bureau of Health Statistics, Research and Evaluation
150 Tremont Street, 5th floor
Boston, Massachusetts 02111*

January, 1989

To the Honorable Senate and
House of Representatives:

We have the honor to submit as required by Chapter 111, Section 2 of the General Laws, the one hundred forty-fifth annual report on statistics of births, deaths, fetal deaths, marriages and divorces, in Massachusetts for the calendar year 1986.

This is the twenty-third Annual Report of Vital Statistics published by the Department of Public Health and is intended to assist in the development of policy and programmatic initiatives within the Department, as well as to provide State officials and agencies, and the general public, with valuable statistical information.

Sincerely,

A handwritten signature in dark ink, appearing to read "D. Prothrow-Stith", written in a cursive style.

Deborah Prothrow-Stith, M.D.
Commissioner

ANNUAL REPORT
VITAL STATISTICS OF MASSACHUSETTS
(PUBLIC DOCUMENT #1)

1986

THE COMMONWEALTH OF MASSACHUSETTS
DEPARTMENT OF PUBLIC HEALTH

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JANUARY, 1989

ACKNOWLEDGEMENTS

This publication of the 1986 ANNUAL REPORT OF VITAL STATISTICS is the result of the combined efforts of the following data providers. We gratefully acknowledge the assistance provided by the 351 city and town clerks, hospital personnel, physicians, funeral directors, probate courts, clinics, and Department of Public Health personnel, without whose efforts there would have been no vital statistics.

Department of Public Health staff most significantly involved in the production of the 1986 ANNUAL REPORT OF VITAL STATISTICS include:

Frances Vitagliano, assistant editor;

Lynne Steinman, supervision of computer graphics and special table production, with programming by Charlene Zion, Greg Hanna, and Duke Rhoden;

Robert Danley, population statistics;

Michael Healey, Division of Data Processing, data file management and vital events series printouts;

Carol Bowers, word processing;

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Phyllis Zeuli, assistant registrar of the Statistics Unit, which is responsible for data collection, coding and editing;

Phyllis Rotman, supervisor of the Registration Unit, which is responsible for coordination with cities and towns to produce the data in a timely fashion;

Harold Leonard, supervisor of the Records Unit, which is responsible for maintaining all records and issuing certified copies;

James Orseno, supervisor of the Operations Unit, which is responsible for all printing and mailing of forms.

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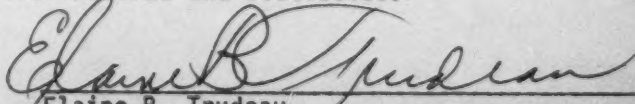
Richard Clapp, M.P.H., Director, Massachusetts Cancer Registry;

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Elaine B. Trudeau
Editor

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INTRODUCTION

The Annual Report of Vital Statistics (Public Document No. 1) has been continuously published since 1842. This is the 23rd edition produced by the Department of Public Health. This report, required under the provisions of Section 2, Chapter 111 of the Massachusetts General Laws, tabulates data on Massachusetts births, fetal deaths, deaths, marriages, divorces, and population for calendar year 1986. Approximately 2,000 copies of the report are distributed to federal, state, and local governmental agencies, private and public health planners and researchers, students and members of the general public. The report provides its users with an overview of the health status of the Massachusetts population.

Vital statistics data may be tabulated either in terms of residence or occurrence data. Resident data include all events which occur to residents of the Commonwealth wherever they occur. Occurrence data include all those events which occur within the state, including those which occur to out-of-state residents. There is an interstate exchange of copies of birth and death records. These records are exchanged for statistical purposes only, for events which occur in states other than where the individual resides; this allows each of the states and provinces to track the births and deaths of their residents. The majority of the data presented in this report for births and deaths is based on resident data. Fetal death, marriage, and divorce data, however, reflect occurrences within the Commonwealth only.

REGISTRATION

The first government operated system of vital events registration anywhere in the world began in the Commonwealth of Massachusetts in 1639 under colonial administration. Prior to that time, in countries such as England with a vital registration system, the responsibility for the registration of vital events had been placed on church officials. The Massachusetts system mandated the registration of vital events by the clerks of the communities. In 1841, the Massachusetts legislature established the first statewide coordination for the registration of these events by requiring that copies of the events registered in the local cities and towns be sent to the Secretary of State. In 1976, the responsibility for the state coordination was transferred to the Department of Public Health. This was accomplished to rejoin the statistical and registration functions which had been separated by the 1964 transfer of the statistical function to the department of public health. With the exception of the administrative location of the State Registry, the actual mechanics of the system have changed remarkably little over the years.

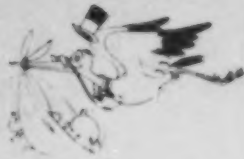
With limited exceptions, most vital records in Massachusetts are open, public records. The figure on the next page illustrates the registration process in Massachusetts. For open birth and death records, there is a triple registration process in Massachusetts. The event is first recorded in the city or town where the event occurred. The clerk of that community is then required to forward a certified copy of the record to the community where the person resided at the time of the event and a copy to the State Registry. Certified copies of the records may be issued from local or state records. If the record is a restricted record, such as those of out-of-wedlock births, the registration occurs only in the community where the event occurred and the state office.

The Vital Records and Statistics Process

PROCESS

PRODUCT

BIRTHS



MARRIAGES



DEATHS



CITY AND TOWN CLERKS



STATE REGISTRY OF VITAL RECORDS AND STATISTICS



RECORD CODING



DATA ENTRY



COMPUTER EDITING



COMPUTER
STATISTICAL FILES



In addition to receiving a legal copy of each birth record from the city or town in which the birth occurred, the State Registry also receives a confidential copy of the birth record directly from the hospital or birth center where the birth occurred. This copy includes confidential medical information in addition to the legal information. It is this copy of the record which is processed to produce the statistical information on births contained in this report.

Anyone wishing to be married in the Commonwealth may receive their license from any of the 351 cities or towns in the state regardless of where they reside or where the marriage is to take place. The community issuing the license is required to send an attested copy of the marriage record to the State Registry.

The Registry of Vital Records and Statistics receives directly from hospitals the reports of fetal deaths of twenty or more weeks gestation. There are no local filings of fetal death reports. Abstracts of divorces granted are also sent directly to the State Registry from the Registers of Probate from each county probate court.

STATISTICAL PROCESSING AND TABULATING

The records received in the State Registry are carefully examined for errors or inconsistencies and problems resolved. These records are then coded and computerized. Annually, when registration is considered as complete as possible, statistics are aggregated for presentation in this report, special studies, and program monitoring and surveillance.

Anyone using statistical information for comparisons over time should be aware of inconsistencies and changing conventions for classification and coding. This is particularly important when using cause of death information. Codes used for classifying cause of death in this report are based on the Ninth Revision of the International Classification of Diseases, World Health Organization. Classification of variables such as race, nativity, and marital status may also differ over time.

It is hoped that this report will be useful to a wide range of health data users in the Commonwealth, as well as educational planners, demographers, and historians. Questions concerning these data and requests for more detailed findings should be directed to the Massachusetts Department of Public Health, Division of Health Statistics and Research, 150 Tremont Street, Boston, Massachusetts 02111, (617) 727-2977.



VITAL EVENTS



SECTION A

VITAL EVENTS

HIGHLIGHTS

LIVE BIRTHS

- ** 82,163 live births occurred to Massachusetts residents in 1986.
- ** Live births increased by 0.5% from 1985 to 1986.
- ** The 1986 live birth rate in Massachusetts per 1,000 population remained the same as in 1985--14.1.
- ** Massachusetts' 1986 live birth rate of 14.1 per 1,000 population remains below the 1986 U.S. rate of 15.6.
- ** The largest number of births occurred in August (9.0%--7,372), with the smallest number occurring in February (7.5%--6,166). (See Section B for further information on Natality.)

DEATHS

- ** 55,860 deaths occurred to Massachusetts residents in 1986.
- ** The number of deaths increased by 0.5% from 1985 to 1986.
- ** The rate of deaths per 1,000 population held constant at 9.6 in 1986. The U.S. death rate remained constant in 1986 at 8.7. (Differences between the crude death rates in Massachusetts and the U.S. may reflect differences in the age distribution of the population rather than differences in age-specific mortality.)
- ** The largest number of deaths occurred in March (9.6%--5,368), with the smallest number occurring in September (7.6%--4,236). (See Section C for more complete information on Mortality.)

FETAL DEATHS

- ** 574 reportable fetal deaths occurred to Massachusetts residents in 1986.
- ** Reportable fetal deaths increased by 3.2% from 1985 to 1986, resulting in a fetal death rate of 6.9 per 1,000 live births and fetal deaths. No comparable U.S. data are available. (See Section D for further information on fetal deaths.)

INFANT DEATHS

- ** 695 infant deaths (those less than 1 year) occurred to Massachusetts residents in 1986.
- ** The Massachusetts infant mortality rate decreased from 9.1 deaths per 1,000 live births in 1985 to 8.4 deaths in 1986.
- ** In 1986, the non-white infant mortality rate decreased from 16.9 in 1985 to 14.9 in 1986.
- ** The Massachusetts 1986 infant mortality rate of 8.4 per 1,000 live births still remained considerably below the U.S. rate of 10.4. (See Section D for further information on Infant Mortality.)

MARRIAGES

- ** 49,990 marriages took place in Massachusetts in 1986.
- ** The number of marriages increased slightly by 0.3% from 1985 to 1986. The number of marriages nationally decreased by 0.5% during the same period.
- ** The 1986 Massachusetts rate of 8.6 marriages per 1,000 population remains below the U.S. rate of 10.0.
- ** June is still the favorite month for marriages with 6,357 (12.7%), and the fewest occurring in January (1,515--3.0%).

DIVORCES

- ** 19,809 divorces were granted in Massachusetts in 1986.
- ** Divorces in Massachusetts decreased by 8.2% from 1985 to 1986. (See Section E.)
- ** The 1986 Massachusetts divorce rate of 3.4 divorces per 1,000 population remains considerably below the U. S. rate of 4.8.
- ** The largest number of divorces were finalized in September with 2,101 (10.6%), and the fewest in April (1,323--6.7%).

NATURAL INCREASE

- ** The rate of natural increase (difference between the rate of births and deaths) decreased in Massachusetts to 4.5 per 1,000 residents in 1986 from 4.6 in 1985.
- ** The 1986 U.S. rate of natural increase of 6.8 remains far above that of Massachusetts.

The Vital Events section provides basic information on all vital events. In addition to the information highlighted above, this section contains summary birth and death data by city and town, county and health service area. More detailed information is contained in the sections on the individual events.

DEFINITIONS AND RATES IMPORTANT FOR THIS SECTION INCLUDE:

HEALTH SERVICE AREA In accordance with the National Health Planning and Resources Development Act of 1974 (P.L. 93-641), Massachusetts is divided into six Health Service Areas (HSAs) for the purpose of planning and developing health services.

OCCURRENCE The place where the event actually happened. In Massachusetts, place will be one of 351 cities or towns.

RESIDENCE The usual place of residence as reported by the mother (for births) or the informant (for deaths). An infant's residence is considered that of its mother. While occurrence data include only events that occurred within Massachusetts, residence data for births and deaths include those which may or may not have occurred within Massachusetts.

CRUDE RATES OF VITAL EVENTS

BIRTH RATE
$$\frac{\text{No. of Resident Live Births}}{\text{Total Population}} \times 1,000$$

FETAL MORTALITY
$$\frac{\text{No. of Resident Fetal Deaths}}{\text{Live Births} + \text{Fetal Deaths}} \times 1,000$$

INFANT MORTALITY
$$\frac{\text{No. of Resident Deaths LT 1 Year}}{\text{Live Births}} \times 1,000$$

NEONATAL MORTALITY
$$\frac{\text{No. of Resident Deaths LT 28 Days}}{\text{Live Births}} \times 1,000$$

DEATH RATE
$$\frac{\text{No. of Resident Deaths}}{\text{Total Population}} \times 1,000$$

MARRIAGE RATE
$$\frac{\text{No. of Occurrence Marriages}}{\text{Total Population}} \times 1000$$

DIVORCE RATE
$$\frac{\text{No. of Occurrence Divorces}}{\text{Total Population}} \times 1,000$$

FIGURE A-1

1986 MASSACHUSETTS VITAL EVENTS

Each day Massachusetts residents had approximately:

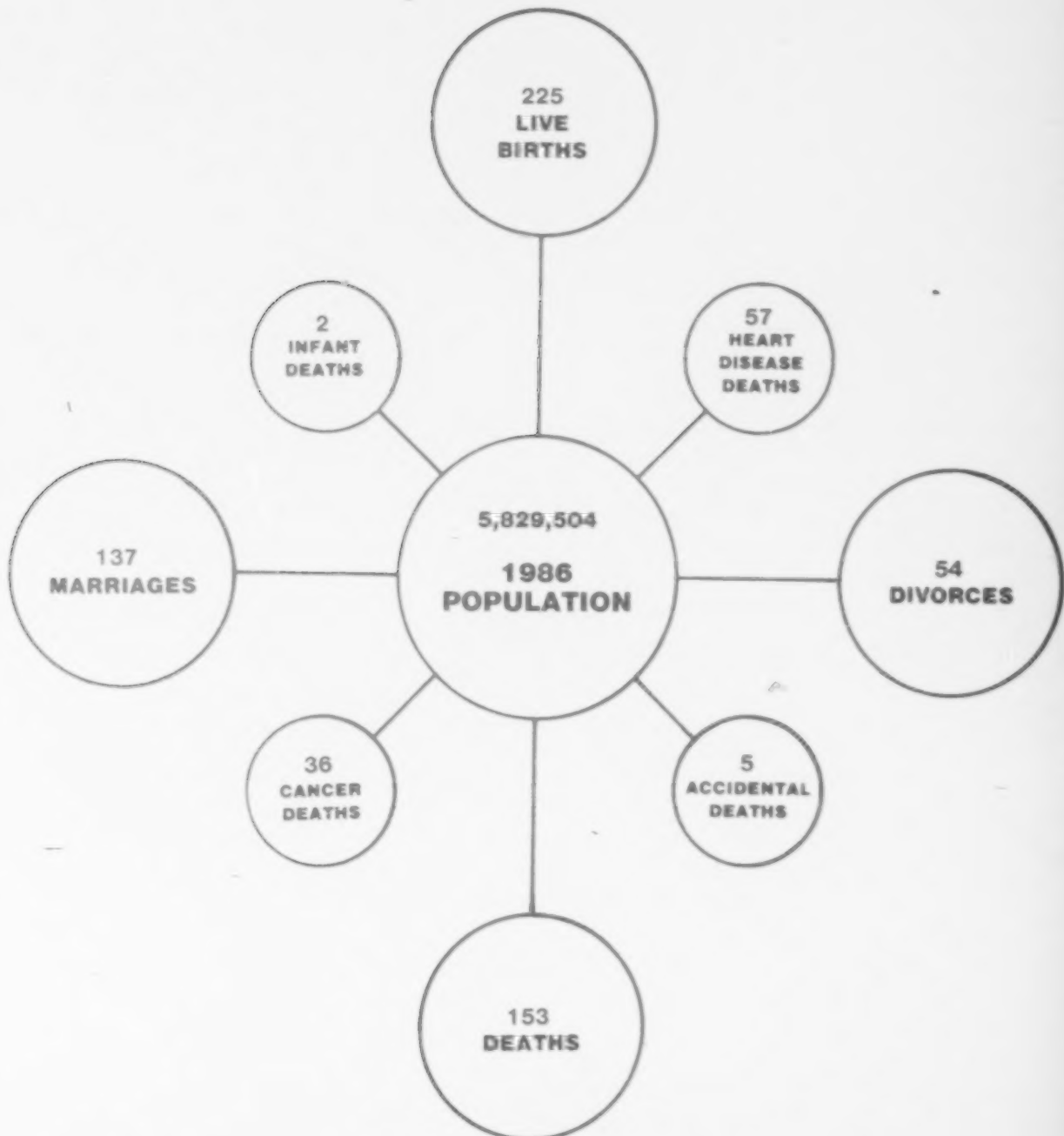


TABLE A-1
SUMMARY OF VITAL EVENTS--MASSACHUSETTS AND UNITED STATES
1985-1986

VITAL EVENT	- MASSACHUSETTS -			- UNITED STATES -		
	1986	1985	% CHANGE	1986	1985	% CHANGE
LIVE BIRTHS	82,163	81,776	+0.5	5,756,547	5,760,561	-0.1
FETAL DEATHS	574	556	+3.2	N/A	N/A	N/A
TOTAL DEATHS	55,860	55,590	+0.5	2,105,361	2,086,440	+0.9
INFANT DEATHS	695	745	-6.7	38,891	40,030	-2.8
NEONATAL DEATHS	476	538	-11.2	25,212	26,179	-3.7
MARRIAGES	49,990	49,849	+0.3	2,400,000	2,412,625*	-0.5
DIVORCES	19,809	21,573	-8.2	1,159,000	1,190,000*	-2.6

NOTE: NEONATAL AND INFANT DEATHS ARE INCLUDED IN TOTAL DEATHS; FETAL DEATHS ARE EXCLUDED FROM TOTAL DEATHS. FIGURES FOR MARRIAGES AND DIVORCES REFLECT OCCURRENCE, NOT RESIDENCE.

1986 U.S. MARRIAGE AND DIVORCE FIGURES ARE PROVISIONAL.

*REVISED

TABLE A-2
CRUDE RATES OF VITAL EVENTS, MASSACHUSETTS AND UNITED STATES
1985-1986

VITAL EVENT	- MASSACHUSETTS -		- UNITED STATES -	
	1986	1985	1986	1985
LIVE BIRTHS	14.1	14.1	15.6	15.8*
FETAL DEATHS	6.9	6.7	N/A	N/A
TOTAL DEATHS	9.6	9.6*	8.7	8.7
INFANT DEATHS	8.4	9.1	10.4	10.6
NEONATAL DEATHS	5.8	6.6	6.7	7.0
MARRIAGES	8.6	8.6	10.0	10.1
DIVORCES	3.4	3.7	4.8	5.0

NOTE: THE RATES FOR LIVE BIRTHS, TOTAL DEATHS, MARRIAGES AND DIVORCES ARE PER 1,000 POPULATION.

RATES FOR INFANT AND NEONATAL DEATHS ARE PER 1,000 LIVE BIRTHS.

RATES FOR FETAL DEATHS ARE PER 1,000 LIVE BIRTHS AND FETAL DEATHS.

1986 U.S. RATES FOR MARRIAGES AND DIVORCES ARE PROVISIONAL.

*REVISED

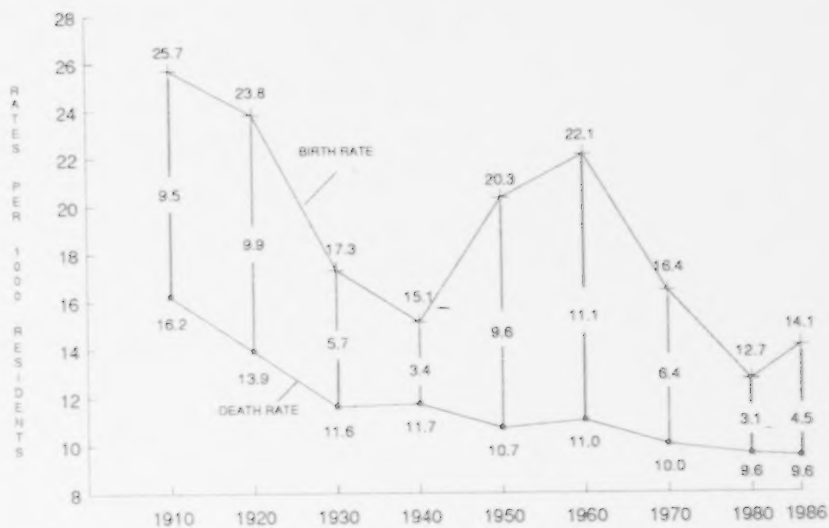
TABLE A-3
MASSACHUSETTS RESIDENT BIRTHS AND DEATHS AND RESULTANT NATURAL INCREASE
1900-1986

YEAR	BIRTHS	DEATHS	NATURAL INCREASE	RATE
1900	73,386	51,156	22,230	7.9
1905	75,022	50,486	24,536	8.2
1910	86,539	54,407	32,132	9.5
1915	93,155	53,131	40,024	10.8
1920	91,859	53,632	38,227	9.9
1925	86,014	51,890	34,124	8.2
1930	73,690	49,503	24,187	5.7
1935	62,416	49,634	12,782	2.9
1940	65,369	50,698	14,671	3.4
1945-	76,455	50,763	25,692	5.7
1950	95,619	50,359	45,260	9.6
1955	109,610	53,386	56,224	11.6
1960	114,018	56,560	57,458	11.2
1965	100,262	58,853	41,409	7.8
1970	93,582	56,944	36,638	6.4
1975	68,070	53,708	14,362	2.5
1980	72,591	54,935	17,656	3.1
1981	73,931	52,814	21,117	3.7
1982	75,749	52,868	22,881	4.0
1983	76,031	54,150	21,881	3.8
1984	78,197	55,189	23,008	4.0
1985	81,776	55,590	26,186	4.5*
1986	82,163	55,860	26,303	4.5

*REVISED

FIGURE A - 2
RATE OF NATURAL INCREASE
1910 - 1986

MASSACHUSETTS



UNITED STATES

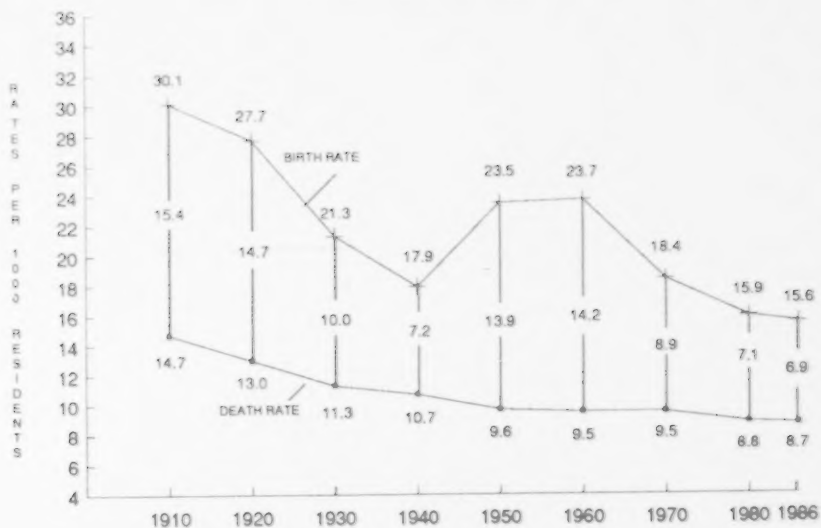


TABLE A-4
VITAL EVENTS BY MONTH
1986

		BIRTHS	FETAL DEATHS	DEATHS	INFANT DEATHS	NEONATAL DEATHS	MARRIAGES	DIVORCES*
TOTALS	N	82,163	574	55,860	695	478	49,990	19,809
	%	100.0	100.0	100.0	100.0	100.0	100.0	100.0
JANUARY	N	6,574	52	5,019	52	38	1,515	1,458
	%	8.0	9.1	9.0	7.5	7.9	3.0	7.4
FEBRUARY	N	6,166	56	4,819	51	37	2,253	1,376
	%	7.5	9.8	8.6	7.3	7.7	4.5	6.9
MARCH	N	6,983	52	5,368	71	47	2,139	1,515
	%	8.5	9.1	9.6	10.2	9.8	4.3	7.6
APRIL	N	6,911	45	4,583	58	38	3,837	1,323
	%	8.4	7.8	8.2	8.3	7.9	7.7	6.7
MAY	N	7,297	43	4,698	55	35	5,936	1,367
	%	8.9	7.5	8.4	7.9	7.3	11.9	6.9
JUNE	N	6,882	46	4,284	48	33	6,357	1,458
	%	8.4	8.0	7.7	6.9	6.9	12.7	7.4
JULY	N	7,091	41	4,388	54	41	3,891	1,605
	%	8.6	7.1	7.8	7.8	8.6	7.8	8.1
AUGUST	N	7,372	53	4,253	67	45	5,969	2,029
	%	9.0	9.2	7.6	9.6	9.4	11.9	10.2
SEPTEMBER	N	7,202	42	4,236	66	45	6,234	2,101
	%	8.8	7.3	7.6	9.5	9.4	12.5	10.6
OCTOBER	N	6,978	54	4,463	55	33	5,682	2,031
	%	8.5	9.4	8.0	7.9	6.9	11.4	10.3
NOVEMBER	N	6,197	42	4,778	57	42	3,781	1,684
	%	7.5	7.3	8.6	8.2	8.8	7.5	8.5
DECEMBER	N	6,510	48	4,971	61	44	2,396	1,861
	%	7.9	8.4	8.9	8.8	9.2	4.8	9.4

*TOTAL REFLECTS ONE UNKNOWN MONTH.

PERCENTAGES MAY NOT SUM TO 100.0 DUE TO ROUNDING.

TABLE A-5A
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****									RESIDENT NATURAL INCREASE
			BIRTH			--LOW BIRTH WGT			ALL DEATHS----			---INFANT----			---NEONATAL--			
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML	
ABINGTON	0	56	197	99	98	9	4	5	137	61	76	0	0	0	0	0	0	60
ACTON	2	57	216	112	104	9	6	3	87	33	54	1	0	1	1	0	1	129
ACUSHNET	1	20	94	47	47	6	3	3	65	32	33	0	0	0	0	0	0	29
ADAMS	1	42	105	65	40	13	8	5	133	71	62	3	2	1	3	2	1	-28
AGAWAM	2	169	289	155	134	11	5	6	260	108	152	3	1	2	1	1	0	29
ALFORD	1	3	6	5	1	0	0	0	7	2	5	0	0	0	0	0	0	-1
AMESBURY	3	171	285	148	137	19	9	10	170	80	90	3	3	0	2	2	0	115
AMHERST	2	35	188	93	95	11	6	5	96	39	57	1	1	0	0	0	0	92
ANDOVER	3	61	313	153	160	7	3	4	214	112	102	2	1	1	0	0	0	99
ARLINGTON	4	384	502	265	237	27	13	14	514	218	296	3	2	1	3	2	1	-12
ASHBURNHAM	1	7	78	50	28	0	0	0	37	22	15	1	0	1	0	0	0	41
ASHBY	0	3	26	8	18	1	0	1	20	13	7	0	0	0	0	0	0	6
ASHFIELD	1	6	25	14	11	0	0	0	15	6	9	0	0	0	0	0	0	10
ASHLAND	1	9	183	81	102	12	8	4	68	38	30	0	0	0	0	0	0	115
ATHOL	0	157	148	80	68	5	2	3	136	62	74	0	0	0	0	0	0	12
ATTLEBORO	989	370	612	334	278	28	11	17	304	152	152	7	4	3	5	3	2	308
AUBURN	1	15	163	87	76	11	5	6	127	68	59	1	1	0	1	1	0	36
AVON	0	15	50	29	21	1	0	1	46	28	18	1	0	1	0	0	0	4
AYER	1	182	334	159	175	18	5	13	55	31	24	2	0	2	1	0	1	279
BARNSTABLE	1177	1031	507	265	242	24	8	16	488	212	276	3	3	0	1	1	0	19
BARRE	0	7	50	24	26	3	1	2	48	24	24	0	0	0	0	0	0	2
BECKET	0	0	14	9	5	1	1	0	8	5	3	1	1	0	0	0	0	6
BEDFORD	1	218	220	120	100	11	8	3	97	47	50	0	0	0	0	0	0	123
BELCHERTOWN	0	19	138	66	72	6	3	3	70	46	24	3	3	0	2	2	0	68

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

TABLE A-5A
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1988

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****										RESIDENT NATURAL INCREASE
			BIRTH			--LOW BIRTH WGT			ALL DEATHS----			---INFANT----			---NEONATAL--				
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML		
BELLINGHAM	0	7	257	122	135	16	11	5	79	47	32	5	3	2	4	3	1	178	
BELMONT	1	86	236	138	98	12	9	3	288	126	162	1	1	0	1	1	0	-52	
BERKLEY	0	6	44	23	21	1	1	0	20	13	7	0	0	0	0	0	0	24	
BERLIN	0	6	40	17	23	1	0	1	16	8	8	0	0	0	0	0	0	24	
BERNARDSTON	0	4	22	10	12	2	1	1	16	8	8	0	0	0	0	0	0	6	
BEVERLY	1407	557	557	308	249	24	10	14	360	158	202	4	2	2	1	1	0	197	
BILLERICA	0	67	582	301	281	27	15	12	209	108	101	2	2	0	2	2	0	373	
BLACKSTONE	0	17	99	59	40	7	3	4	66	34	32	0	0	0	0	0	0	33	
BLANDFORD	0	1	9	7	2	0	0	0	11	6	5	0	0	0	0	0	0	-2	
BOLTON	1	4	44	25	19	2	1	1	18	13	5	0	0	0	0	0	0	26	
BOSTON	20558	9507	9077	4622	4455	769	384	385	5631	2787	2844	126	61	65	93	47	46	3446	
BOURNE	1	106	222	114	108	10	5	5	150	74	76	1	0	1	1	0	1	72	
BOXBOROUGH	0	2	41	21	20	3	2	1	10	6	4	0	0	0	0	0	0	31	
BOXFORD	2	2	83	41	42	3	1	2	26	10	16	0	0	0	0	0	0	57	
BOYLSTON	0	88	35	22	13	1	1	0	33	11	22	0	0	0	0	0	0	2	
BRAINTREE	1	353	366	182	184	17	9	8	399	173	226	3	1	2	2	1	1	-33	
BREKSTER	0	87	102	62	40	3	0	3	86	34	52	1	0	1	1	0	1	16	
BRIDGEWATER	3	29	245	127	118	13	7	6	123	61	62	1	1	0	1	1	0	122	
BRIMFIELD	1	0	24	11	13	0	0	0	19	10	9	0	0	0	0	0	0	5	
BROCKTON	1227	1517	1707	891	816	108	58	50	948	466	482	19	10	9	14	6	8	759	
BROOKFIELD	0	8	31	15	16	2	2	0	30	13	17	0	0	0	0	0	0	1	
BROOKLINE	8	230	572	285	287	31	6	25	596	255	341	5	2	3	3	0	3	-24	
BUCKLAND	1	3	24	9	15	1	0	1	11	8	3	0	0	0	0	0	0	13	
BURLINGTON	3	378	255	125	130	14	8	6	142	80	62	0	0	0	0	0	0	113	

TABLE A-5A (CONTINUED)
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1966

	OCCURRENCE		*** RESIDENT BIRTHS **			--LOW BIRTH WGT			***** RESIDENT DEATHS *****									RESIDENT NATURAL INCREASE
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	ALL DEATHS-----	-----INFANT-----	-----NEONATAL--	TOTAL	MALE	FEML	TOTAL	MALE	FEML	
CAMBRIDGE	1543	1416	1168	576	592	70	27	43	814	376	438	12	5	7	9	4	5	384
CANTON	0	44	209	105	104	12	3	9	163	84	79	2	1	1	0	0	0	46
CARLISLE	0	14	50	25	25	0	0	0	18	12	6	1	1	0	1	1	0	32
CARVER	0	12	174	94	80	6	2	4	71	43	28	1	1	0	0	0	0	103
CHARLEMONT	0	1	17	7	10	0	0	0	7	3	4	0	0	0	0	0	0	10
CHARLTON	0	36	126	60	66	8	3	5	79	44	35	1	1	0	1	1	0	47
CHATHAM	1	43	49	32	17	2	1	1	102	42	60	0	0	0	0	0	0	-53
CHELMSFORD	2	88	373	192	181	19	13	6	230	114	116	3	2	1	3	2	1	143
CHELSEA	1	143	484	235	249	32	12	20	329	175	154	4	4	0	2	2	0	155
CHESHIRE	0	12	51	31	20	4	2	2	29	20	9	0	0	0	0	0	0	22
CHESTER	1	1	15	10	5	1	0	1	11	5	6	0	0	0	0	0	0	4
CHESTERFIELD	0	0	13	9	4	0	0	0	3	0	3	0	0	0	0	0	0	10
CHICOPEE	2	162	695	353	342	42	16	26	668	345	323	0	3	5	4	1	3	27
CHILMARK	0	2	9	8	1	0	0	0	7	1	6	0	0	0	0	0	0	2
CLARKSBURG	0	1	22	10	12	3	1	2	9	4	5	0	0	0	0	0	0	13
CLINTON	1	114	202	102	100	12	4	8	139	76	63	2	2	0	1	1	0	63
CONASSET	0	31	82	44	38	2	1	1	80	40	40	1	0	1	1	0	1	2
COLRAIN	2	1	28	16	12	1	0	1	10	7	3	1	1	0	0	0	0	18
CONCORD	1876	370	149	70	79	7	3	4	148	66	82	1	1	0	1	1	0	1
CONWAY	1	3	20	14	6	0	0	0	9	4	5	0	0	0	0	0	0	11
CUPWINGTON	0	0	17	7	10	0	0	0	8	3	5	0	0	0	0	0	0	9
DALTON	0	26	76	38	38	1	1	0	71	34	37	0	0	0	0	0	0	5
DANVERS	690	343	304	145	159	14	10	4	287	120	167	2	1	1	1	1	0	17
DARTMOUTH	1	85	217	105	112	9	6	3	219	110	109	2	1	1	0	0	0	-2

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

TABLE A-5A
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

	OCCURRENCE		*** RES I D E N T B I R T H S **						***** RES I D E N T D E A T H S ****									RESIDENT NATURAL INCREASE
			BIRTH			--LOW BIRTH WGT			ALL DEATHS----			----INFANT----			--NEONATAL--			
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML	
DEDHAM	0	79	279	134	145	15	4	11	238	114	124	1	1	0	1	1	0	41
DEERFIELD	0	22	49	26	23	2	1	1	51	29	22	0	0	0	0	0	0	-2
DENNIS	3	116	138	73	65	3	0	3	197	100	97	2	0	2	2	0	2	-59
DIGHTON	0	6	62	35	27	4	1	3	39	21	18	1	0	1	1	0	1	23
DOUGLAS	0	9	85	38	47	4	3	1	34	20	14	0	0	0	0	0	0	51
DOVER	0	8	48	26	22	3	1	2	36	15	21	0	0	0	0	0	0	12
DRACUT	2	24	330	167	163	13	3	10	147	85	62	3	0	3	2	0	2	183
DUDLEY	0	15	108	50	58	9	5	4	92	52	40	1	0	1	1	0	1	16
DUNSTABLE	0	1	30	19	11	1	0	1	11	2	9	0	0	0	0	0	0	19
DUXBURY	1	55	172	81	91	9	3	6	90	47	43	1	0	1	1	0	1	82
EAST BRIDGEWATER	0	23	122	64	58	4	2	2	80	39	41	0	0	0	0	0	0	42
EAST BROOKFIELD	0	3	32	19	13	3	2	1	18	9	9	0	0	0	0	0	0	14
EAST LONGMEADOW	0	72	132	78	54	7	3	4	127	48	79	1	1	0	1	1	0	5
EASTHAM	3	5	42	18	24	0	0	0	31	17	14	0	0	0	0	0	0	11
EASTHAMPTON	0	25	197	95	102	6	1	5	149	79	70	1	1	0	1	1	0	48
EASTON	0	37	273	155	118	16	10	6	111	55	56	0	0	0	0	0	0	162
EDGARTOWN	0	13	42	17	25	3	3	0	28	16	12	0	0	0	0	0	0	14
EGREMONT	1	1	12	4	8	0	0	0	10	3	7	0	0	0	0	0	0	2
ERVING	1	5	8	2	6	1	0	1	11	6	5	0	0	0	0	0	0	-3
ESSEX	0	6	49	20	29	2	0	2	32	13	19	0	0	0	0	0	0	17
EVERETT	1	417	499	235	264	21	12	9	392	207	185	1	0	1	1	0	1	107
FAIRHAVEN	0	86	169	86	83	9	7	2	186	78	108	1	1	0	0	0	0	-17
FALL RIVER	1915	1520	1355	672	683	75	38	37	1109	564	545	10	9	1	9	8	1	246
FALMOUTH	520	359	356	171	185	14	3	11	290	134	156	4	0	4	4	0	4	66

TABLE A-5A (CONTINUED)
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1984

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****									RESIDENT NATURAL INCREASE
	BIRTHS	DEATHS	BIRTH	--LOW BIRTH WGT				ALL DEATHS----			+---INFANT----			+---NEONATAL--				
			TOTAL	MALE	FEMALE	TOTAL	MALE	FEMF	TOTAL	MALE	FEMALE	TOTL	MALE	FEMF	TOTL	MALE	FEMF	
FITCHBURG	941	477	612	330	282	23	11	12	425	205	220	5	2	3	1	1	0	187
FLORIDA	0	1	5	0	5	0	0	0	5	3	2	0	0	0	0	0	0	0
FOXBOROUGH	1	36	230	122	108	11	8	3	112	51	61	1	0	1	1	0	1	118
FRAMINGHAM	2110	797	805	378	427	49	17	32	587	260	327	8	2	6	6	1	5	218
FRANKLIN	0	24	351	203	148	17	9	8	109	54	55	0	0	0	0	0	0	242
FREETOWN	0	4	95	43	52	4	1	3	36	23	13	0	0	0	0	0	0	59
GARDNER	206	323	287	141	146	14	4	10	223	106	117	1	0	1	1	0	1	64
GAY HEAD	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	-1
GEORGETOWN	0	4	72	35	37	1	1	0	30	12	18	0	0	0	0	0	0	42
GILL	0	3	15	9	6	1	0	1	11	4	7	0	0	0	0	0	0	4
GLOUCESTER	292	293	404	233	171	10	6	4	274	124	150	4	2	2	3	1	2	130
GOSHEN	2	1	15	8	7	2	1	1	3	2	1	0	0	0	0	0	0	12
GOSNOLD	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	-1
GRAFTON	0	20	187	100	87	11	6	5	90	48	42	0	0	0	0	0	0	97
GRAMBY	0	12	54	25	29	3	1	2	37	17	20	0	0	0	0	0	0	17
GRANVILLE	0	1	22	19	3	1	1	0	7	4	3	0	0	0	0	0	0	15
GREAT BARRINGTON	117	187	93	43	50	7	6	1	115	53	62	0	0	0	0	0	0	-22
GREENFIELD	868	365	241	120	121	17	5	12	245	118	127	7	2	5	5	0	5	-4
GROTON	0	19	101	49	52	3	3	0	42	25	17	1	1	0	0	0	0	59
GROVELAND	0	3	66	32	34	2	1	1	35	19	16	1	1	0	1	1	0	31
HADLEY	0	16	57	31	26	1	1	0	50	23	27	1	0	1	1	0	1	7
HALIFAX	0	7	97	46	51	7	5	2	48	30	18	1	1	0	1	1	0	49
HAMILTON	0	9	101	55	46	3	0	3	49	23	26	1	0	1	0	0	0	52
HAMPDEN	0	29	56	33	23	2	1	1	46	23	23	1	1	0	1	1	0	10

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

TABLE A-5A
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

	OCCURRENCE		*** RESIDENT BIRTH			BIRTHS **			***** RESIDENT DEATHS *****												RESIDENT NATURAL INCREASE
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	ALL DEATHS----	---INFANT----	---NEONATAL---	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML	
HANCOCK	0	0	7	1	6	0	0	0	5	1	4	0	0	0	0	0	0	0	0	0	2
HANOVER	0	14	169	90	79	7	7	0	64	34	30	0	0	0	0	0	0	0	0	0	105
HANSON	0	28	145	81	64	8	5	3	66	34	32	3	2	1	3	2	1				79
HARDWICK	1	7	30	12	18	0	0	0	30	15	15	0	0	0	0	0	0	0	0	0	0
HARVARD	0	15	64	32	32	3	1	2	28	12	16	0	0	0	0	0	0	0	0	0	36
HARMICH	0	35	92	52	40	4	1	3	161	60	101	2	0	2	1	0	1				-69
HATFIELD	0	6	44	18	26	0	0	0	28	17	11	0	0	0	0	0	0	0	0	0	16
HAVERHILL	598	631	813	415	398	43	18	25	574	273	301	6	3	3	6	3	3				239
HAWLEY	0	2	7	3	4	0	0	0	3	3	0	0	0	0	0	0	0	0	0	0	4
HEATH	1	0	10	8	2	1	0	1	4	1	3	0	0	0	0	0	0	0	0	0	6
HINGHAM	1	58	209	99	110	12	4	8	147	55	92	1	1	0	0	0	0	0	0	0	62
HINSDALE	0	18	24	12	12	4	0	4	12	10	2	0	0	0	0	0	0	0	0	0	12
HOLBROOK	0	21	151	76	75	10	3	7	91	42	49	0	0	0	0	0	0	0	0	0	60
HOLDEN	0	162	176	86	90	13	8	5	98	46	52	1	1	0	1	1	0				78
HOLLAND	0	2	22	11	11	1	1	0	16	11	5	0	0	0	0	0	0	0	0	0	6
HOLLISTON	3	14	171	96	75	7	4	3	61	29	32	1	0	1	1	0	1				110
HOLYOKE	1279	1002	816	443	373	59	30	29	626	277	349	8	4	4	8	4	4				190
HOPEDALE	1	21	73	31	42	5	4	1	46	19	27	1	1	0	1	1	0				27
HOPKINTON	0	9	157	76	81	7	5	2	48	24	24	2	2	0	2	2	0				109
HUBBARDSTON	0	1	38	23	15	0	0	0	12	10	2	0	0	0	0	0	0	0	0	0	26
HUDSON	1	25	257	124	133	15	8	7	122	64	58	4	2	2	4	2	2				135
HULL	1	21	163	75	88	16	6	10	95	50	45	0	0	0	0	0	0	0	0	0	68
HUNTINGTON	0	1	32	12	20	2	1	1	18	8	10	0	0	0	0	0	0	0	0	0	14
IPSWICH	1	45	149	72	77	6	4	2	127	55	72	1	0	1	0	0	0				22

TABLE A-5A (CONTINUED)
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS *****										RESIDENT NATURAL INCREASE
			BIRTH		--LOW BIRTH WGT				ALL DEATHS----		+---INFANT----		+---NEONATAL---						
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML		
KINGSTON	1	11	107	54	53	3	1	2	71	40	31	1	1	0	0	0	36		
LAKEVILLE	0	44	104	47	57	2	0	2	58	26	32	0	0	0	0	0	46		
LANCASTER	1	17	97	55	42	5	2	3	42	17	25	0	0	0	0	0	55		
LANESBOROUGH	0	3	37	19	18	3	1	2	15	9	6	0	0	0	0	0	22		
LAURENCE	1667	776	1513	796	717	108	55	53	736	365	371	25	11	14	19	8	777		
LEE	0	46	84	40	44	2	1	1	81	42	39	0	0	0	0	0	3		
LEICESTER	0	7	128	61	67	4	2	4	69	40	29	3	3	0	2	2	59		
LENOX	0	75	68	39	29	3	1	2	87	31	56	0	0	0	0	0	-19		
LEONISTER	1144	277	589	283	306	33	11	22	321	155	166	4	1	3	2	0	268		
LEVERETT	1	3	22	14	8	1	1	0	15	9	6	0	0	0	0	0	7		
LEXINGTON	5	165	244	116	128	10	7	3	244	105	139	2	1	1	1	1	0		
LEYDEN	0	0	9	8	1	0	0	0	5	2	3	0	0	0	0	0	4		
LINCOLN	1	10	54	28	26	3	0	3	36	14	22	0	0	0	0	0	18		
LITTLETON	1	38	103	53	50	2	1	1	78	39	39	0	0	0	0	0	25		
LONGMEADOW	0	57	123	66	57	2	2	0	128	53	75	1	0	1	0	0	-5		
LOWELL	2509	1402	1796	923	873	113	57	56	1019	465	554	13	6	7	8	3	777		
LUDDLOW	1	167	200	90	110	9	5	4	171	105	66	2	1	1	2	1	29		
LUNENBURG	0	6	103	49	54	5	2	3	57	26	31	0	0	0	0	0	46		
LYNN	925	1005	1409	713	696	79	36	43	941	474	467	15	8	7	8	4	468		
LYNNFIELD	0	22	105	57	48	3	3	0	104	42	62	0	0	0	0	0	1		
MALDEN	2102	473	760	403	357	42	25	17	555	254	301	6	5	1	3	3	205		
MANCHESTER	0	14	48	22	26	0	0	0	53	24	29	0	0	0	0	0	-5		
MANSFIELD	0	11	248	131	117	11	5	6	73	38	35	1	1	0	1	1	175		
MARBLEHEAD	1	69	196	97	99	14	6	8	162	75	87	1	0	1	1	0	34		

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

TABLE A-5A
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****									RESIDENT NATURAL INCREASE
	BIRTHS	DEATHS	BIRTH	--LOW BIRTH HGT					ALL DEATHS-----INFANT-----NEONATAL--									
				TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML			
MARION	1	11	51	30	21	3	2	1	50	30	20	1	1	0	1	1	0	1
MARLBOROUGH	2	365	468	250	218	28	14	14	282	121	161	3	3	0	1	1	0	186
MARSHFIELD	0	32	359	185	174	18	5	13	127	64	63	1	1	0	0	0	0	232
MASHPEE	1	35	94	46	48	5	3	2	47	31	16	0	0	0	0	0	0	47
MATTAPOISETT	0	18	61	35	26	0	0	0	65	34	31	0	0	0	0	0	0	-4
MAYNARD	0	20	172	83	89	15	5	10	89	48	41	1	1	0	1	1	0	83
MEDFIELD	0	16	168	90	78	2	1	1	65	32	33	1	1	0	1	1	0	103
MEDFORD	2	413	698	369	329	29	14	15	616	298	318	2	0	2	0	0	0	82
MEDWAY	0	28	144	70	74	7	3	4	75	35	40	0	0	0	0	0	0	69
MELROSE	1342	467	399	204	195	15	8	7	346	149	197	4	4	0	3	3	0	53
MENDON	0	1	35	17	18	2	1	1	17	9	8	0	0	0	0	0	0	18
MERRIMAC	0	0	58	32	26	3	2	1	29	17	12	1	0	1	1	0	1	29
METHUEN	1210	610	548	269	279	42	16	26	384	192	192	1	0	1	1	0	1	164
MIDDLEBOROUGH	2	231	307	176	131	8	4	4	175	74	101	0	0	0	0	0	0	132
MIDDLEFIELD	0	1	5	2	3	0	0	0	3	0	3	0	0	0	0	0	0	2
MIDDLETON	0	5	62	36	26	3	2	1	28	16	12	0	0	0	0	0	0	34
MILFORD	429	323	375	201	174	12	3	9	185	82	103	2	0	2	2	0	2	190
MILLBURY	0	24	158	78	80	7	4	3	114	56	58	1	1	0	0	0	0	44
MILLIS	1	6	121	65	56	4	2	2	46	21	25	1	0	1	0	0	0	75
MILLVILLE	0	1	30	12	18	2	0	2	21	8	13	0	0	0	0	0	0	9
MILTON	0	336	306	156	150	8	2	6	322	158	164	2	1	1	0	0	0	-16
MONROE	0	1	0	0	0	0	0	0	4	2	2	0	0	0	0	0	0	-4
MONSON	1	10	88	44	44	4	2	2	59	32	27	0	0	0	0	0	0	29
MONTAGUE	0	103	137	76	61	5	5	0	93	51	42	2	0	2	2	0	2	44

TABLE A-5A (CONTINUED)
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1966

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****									RESIDENT NATURAL INCREASE
	BIRTHS	DEATHS	BIRTH TOTAL	--LOW BIRTH WGT			ALL DEATHS----			---INFANT---			--NEONATAL--					
				MALE	FEMALE		TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML			
MONTERY	0	3	7	4	3	0	0	0	11	4	7	0	0	0	0	0	0	-4
MONTGOMERY	0	3	14	7	7	1	0	1	6	3	3	0	0	0	0	0	0	8
MOUNT WASHINGTON	0	1	0	0	0	0	0	0	6	5	1	0	0	0	0	0	0	-
NAHANT	0	17	47	27	20	1	1	0	32	10	22	1	1	0	1	1	0	15
NANTUCKET	75	58	80	40	40	0	0	0	68	33	35	1	1	0	0	0	0	12
NATICK	663	372	419	200	219	26	7	19	265	124	141	2	0	2	0	0	0	154
NEEDHAM	3	300	331	173	158	13	6	7	304	147	157	1	0	1	1	0	1	27
NEW ASHFORD	0	0	5	2	3	0	0	0	1	1	0	0	0	0	0	0	0	4
NEW BEDFORD	2029	1329	1511	755	756	106	45	61	1128	540	588	13	5	8	11	4	7	383
NEW BRAINTREE	0	0	21	13	8	0	0	0	4	2	2	0	0	0	0	0	0	17
NEW MARLBOROUGH	0	0	15	11	4	1	0	1	5	2	3	0	0	0	0	0	0	10
NEW SALEM	1	0	8	5	3	0	0	0	3	0	3	0	0	0	0	0	0	5
NEHBURY	2	5	91	45	46	3	1	2	21	8	13	0	0	0	0	0	0	70
NEHBURYPORT	794	285	221	109	112	6	3	3	175	71	104	1	0	1	0	0	0	46
NEWTON	2539	679	857	423	434	35	11	24	690	309	381	0	0	0	0	0	0	167
NORFOLK	1	122	142	71	71	4	2	2	23	11	12	1	1	0	1	1	0	119
NORTH ADAMS	367	335	197	109	88	12	6	6	224	114	110	1	1	0	0	0	0	-27
NORTH ANDOVER	2	83	256	129	127	11	5	6	199	84	113	1	1	0	1	1	0	57
NORTH ATTLEBORO	2	52	365	189	176	14	7	7	145	60	85	4	3	1	3	2	1	220
NORTH BROOKFIELD	0	6	62	32	30	2	2	0	31	18	13	0	0	0	0	0	0	31
NORTH READING	0	29	176	90	86	9	4	5	85	43	42	1	1	0	1	1	0	91
NORTHAMPTON	1109	585	267	133	134	13	6	7	292	146	146	2	2	0	2	2	0	-25
NORTHBOROUGH	0	29	180	90	82	8	3	5	67	30	37	1	1	0	1	1	0	113
NORTHBRIDGE	1	72	194	107	87	5	1	4	112	48	64	0	0	0	0	0	0	82

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

TABLE A-5A
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1966

	OCCURRENCE		RESIDENT BIRTHS						RESIDENT DEATHS									RESIDENT NATURAL INCREASE
			BIRTH			--LOM BIRTH MGT			ALL DEATHS----			--INFANT----			--NEONATAL--			
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMF	TOTAL	MALE	FEMALE	TOTL	MALE	FEMF	TOTL	MALE	FEMF	
NORTHFIELD	1	0	35	22	13	2	0	2	20	14	14	0	0	0	0	0	0	7
NORTON	3	39	215	113	102	10	4	6	64	32	32	1	0	1	1	0	1	181
NORMELL	0	42	111	66	45	1	1	0	64	32	34	1	0	1	0	0	0	48
NORMOOD	903	504	375	190	177	10	7	11	304	140	164	1	1	0	0	0	0	49
OAK BLUFFS	150	93	39	16	23	1	0	1	43	20	23	0	0	0	0	0	0	-4
OAKHAM	0	2	21	9	12	2	0	2	10	5	5	0	0	0	0	0	0	11
ORANGE	0	14	112	59	53	6	4	2	03	42	41	2	1	1	0	0	0	27
ORLEANS	0	35	51	29	22	3	1	2	97	45	52	1	0	1	1	0	1	-46
OTIS	0	0	10	11	7	3	2	1	0	7	1	0	0	0	0	0	0	10
OXFORD	0	19	157	05	72	7	3	4	09	55	34	2	1	1	1	0	1	60
PALMER	2	116	175	01	94	11	3	0	113	63	50	2	1	1	2	1	1	62
PAXTON	1	0	45	27	10	5	3	2	27	14	13	1	0	1	0	0	0	10
PEARODY	1	249	579	209	290	29	11	10	302	100	202	3	1	2	2	1	1	197
PELHAM	0	1	12	0	4	0	0	0	7	2	5	0	0	0	0	0	0	5
PEMBROKE	1	27	232	125	107	13	0	5	92	40	44	2	1	1	1	1	0	140
PEPPERELL	3	17	193	90	95	10	3	7	52	20	32	0	0	0	0	0	0	141
PERU	0	0	12	4	0	1	0	1	7	6	1	0	0	0	0	0	0	5
PETERSHAM	0	0	12	7	5	3	1	2	7	4	3	0	0	0	0	0	0	5
PHILLIPSTON	0	1	17	10	7	1	0	1	4	3	1	0	0	0	0	0	0	13
PITTSFIELD	1492	770	660	350	310	30	19	19	524	233	291	5	3	2	3	1	2	144
PLAINFIELD	1	0	5	2	3	0	0	0	1	1	0	0	0	0	0	0	0	4
PLAINVILLE	1	11	91	55	36	5	3	2	44	22	22	1	1	0	0	0	0	47
PLYMOUTH	795	852	631	352	279	32	16	16	304	194	190	3	2	1	2	1	1	247
PLYMPTON	1	3	30	16	22	4	2	2	9	7	2	1	0	1	0	0	0	29

TABLE A-5A (CONTINUED)
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1966

	OCCURRENCE		*** RES I D E N T B I R T H S **						***** RES I D E N T D E A T H S ****										RESIDENT NATURAL INCREASE
	BIRTHS	DEATHS	BIRTH			--LOW BIRTH MGT			ALL DEATHS----			----INFANT----			--NEONATAL--				
			TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML		
PRINCETON	0	0	49	-24	25	3	1	2	13	3	10	1	0	1	1	0	1	36	
PROVINCETOWN	0	36	30	17	13	2	2	0	57	25	32	0	0	0	0	0	0	-27	
QUINCY	779	873	1085	561	524	51	24	27	1005	477	528	10	6	4	6	3	3	80	
RANDOLPH	1	76	347	177	170	21	9	12	303	154	149	1	0	1	1	0	1	44	
RAYNHAM	0	14	94	52	42	6	4	2	72	42	30	1	1	0	1	1	0	22	
READING	1	43	296	152	144	13	3	10	171	87	84	4	2	2	3	1	2	125	
REHOBOTH	0	6	90	46	44	4	2	2	37	24	13	0	0	0	0	0	0	53	
REVERE	3	118	560	272	288	21	9	12	437	225	212	5	4	1	2	2	0	123	
RICHMOND	0	3	23	9	14	1	1	0	8	5	3	1	1	0	1	1	0	15	
ROCHESTER	1	4	36	20	16	3	1	2	20	9	11	0	0	0	0	0	0	16	
ROCKLAND	0	73	273	137	136	13	5	8	107	53	54	0	0	0	0	0	0	166	
ROCKPORT	1	24	65	38	27	1	1	0	88	39	49	0	0	0	0	0	0	-23	
ROHE	0	0	6	2	4	0	0	0	0	0	0	0	0	0	0	0	0	6	
ROWLEY	0	11	69	45	24	5	3	2	23	15	8	0	0	0	0	0	0	46	
ROYALSTON	0	3	14	5	9	0	0	0	7	5	2	0	0	0	0	0	0	7	
RUSSELL	0	0	23	9	14	1	0	1	8	5	3	0	0	0	0	0	0	15	
RUTLAND	0	14	53	25	28	4	1	3	27	17	10	0	0	0	0	0	0	26	
SALEM	1389	606	555	273	282	38	13	25	376	196	180	1	1	0	0	0	0	179	
SALISBURY	1	17	100	48	52	3	0	3	57	31	26	0	0	0	0	0	0	43	
SANDSFIELD	0	6	7	4	3	1	0	1	15	8	7	0	0	0	0	0	0	-8	
SANDWICH	0	22	187	98	89	7	5	2	88	48	40	2	1	1	1	0	1	99	
SAUGUS	0	67	327	142	185	16	5	11	210	109	101	2	0	2	2	0	2	117	
SAVOY	0	0	7	4	3	0	0	0	4	2	2	0	0	0	0	0	0	3	
SCITUATE	0	67	212	109	103	12	9	3	154	72	82	2	1	1	1	1	0	58	

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

TABLE A-5A
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1984

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****										RESIDENT NATURAL INCREASE
	BIRTHS	DEATHS	BIRTH	--LOW BIRTH MGT					ALL DEATHS----			----INFANT----			--NEONATAL--				
				TOTAL	MALE	FEMALE	TOTAL	MALE	FEMF	TOTAL	MALE	FEMALE	TOTL	MALE	FEMF	TOTL	MALE	FEMF	
SEEKONK	2	28	151	68	83	8	3	5	77	38	39	2	0	2	2	0	2	74	
SHARON	2	64	224	112	112	13	8	5	97	67	30	5	4	1	3	2	1	127	
SHEFFIELD	2	2	30	12	18	1	0	1	15	7	8	0	0	0	0	0	0	15	
SHELBURNE	2	12	30	19	11	1	1	0	30	14	16	0	0	0	0	0	0	0	
SHERBORN	0	1	48	18	30	0	0	0	17	12	5	0	0	0	0	0	0	31	
SHIRLEY	3	6	72	37	35	1	0	1	35	18	17	1	1	0	0	0	0	37	
SHREMSBURY	0	58	288	142	146	19	9	10	204	99	107	0	0	0	0	0	0	82	
SHUTESBURY	0	0	16	10	6	1	1	0	4	2	2	0	0	0	0	0	0	12	
SOMERSET	0	35	166	84	80	7	3	4	186	91	95	0	0	0	0	0	0	-20	
SOMERVILLE	10	396	973	508	465	57	29	28	786	389	397	10	7	3	9	6	3	187	
SOUTH HADLEY	1	34	154	78	76	11	3	8	144	69	75	2	2	0	2	2	0	10	
SOUTHAMPTON	0	5	44	19	25	3	1	2	28	19	9	0	0	0	0	0	0	16	
SOUTHBOROUGH	2	9	88	43	45	8	6	2	41	23	18	2	2	0	2	2	0	47	
SOUTHBIDGE	550	279	293	142	151	19	10	9	174	86	88	1	1	0	1	1	0	119	
SOUTHWICK	0	10	104	51	53	8	4	4	54	25	29	1	1	0	1	1	0	50	
SPENCER	0	21	193	96	97	7	4	3	97	51	46	2	1	1	2	1	1	96	
SPRINGFIELD	5705	2434	2671	1409	1262	191	101	90	1612	769	843	31	22	9	21	15	6	1059	
STERLING	0	9	86	46	40	3	1	2	41	23	18	-1	0	1	1	0	1	45	
STOCKBRIDGE	1	8	17	6	11	0	0	0	22	11	11	1	1	0	0	0	0	-5	
STONEHAM	865	268	276	137	139	17	9	8	198	97	101	1	0	1	1	0	1	78	
STOUGHTON	2241	483	335	178	157	17	11	6	227	113	114	5	5	0	4	4	0	108	
STON	0	9	78	47	31	6	3	3	32	18	17	0	0	0	0	0	0	46	
STURBRIDGE	1	9	102	44	58	7	4	3	57	26	31	1	1	0	0	0	0	45	
SUDBURY	2	52	174	90	84	11	6	5	71	35	36	1	0	1	0	0	0	105	

TABLE A-5A (CONTINUED)
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

	OCCURRENCE		*** RES I D E N T B I R T H S **						***** RES I D E N T D E A T H S ****										RESIDENT NATURAL INCREASE
			BIRTH						ALL DEATHS----										
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML		
SUNDERLAND	0	26	42	20	22	2	0	2	25	12	13	1	0	1	1	0	1	17	
SUTTON	0	3	96	46	50	5	4	1	30	20	10	0	0	0	0	0	0	66	
SHAMPSCOTT	0	47	121	58	63	5	2	3	160	64	96	1	0	1	1	0	1	-39	
SHANSEA	0	36	155	86	69	7	3	4	125	62	63	1	0	1	0	0	0	30	
TAUNTON	664	432	732	383	349	50	26	24	450	235	215	8	6	2	5	4	1	282	
TEMPLETON	0	21	76	41	35	3	2	1	62	32	30	0	0	0	0	0	0	14	
TENKSBUY	3	222	359	202	157	17	11	6	170	83	87	3	1	2	2	1	1	189	
TISBURY	1	13	46	23	23	0	0	0	37	16	21	0	0	0	0	0	0	9	
TOLLAND	0	0	2	2	0	0	0	0	2	1	1	0	0	0	0	0	0	0	
TOPSFIELD	0	8	57	29	28	2	0	2	34	20	14	0	0	0	0	0	0	23	
TOWNSEND	1	4	153	72	81	2	1	1	38	20	18	1	0	1	0	0	0	115	
TRURO	0	9	14	7	7	0	0	0	21	11	10	0	0	0	0	0	0	-7	
TYNGSBOROUGH	0	6	148	79	69	6	5	1	44	25	19	1	1	0	0	0	0	104	
TRYINGHAM	0	2	9	7	2	2	1	1	3	2	1	0	0	0	0	0	0	6	
UPTON	0	8	66	37	29	6	5	1	43	22	21	1	1	0	0	0	0	23	
UXBRIDGE	2	18	127	55	72	8	3	5	78	49	29	1	1	0	0	0	0	49	
WAKEFIELD	0	92	329	166	163	16	8	8	234	115	119	5	4	1	3	2	1	95	
WALES	1	1	17	12	5	1	1	0	5	3	2	1	1	0	0	0	0	12	
WALPOLE	1	25	247	118	129	8	4	4	137	67	70	1	0	1	1	0	1	110	
WALTHAM	785	545	654	340	314	28	12	16	517	236	281	2	1	1	2	1	1	137	
WARE	246	104	93	46	47	8	5	3	98	55	43	4	3	1	2	2	0	-5	
WAREHAM	284	254	268	130	138	14	1	13	222	103	119	4	0	4	4	0	4	46	
WARREN	0	7	57	25	32	5	4	1	48	27	21	0	0	0	0	0	0	9	
WARMICK	1	0	11	6	5	2	2	0	6	3	3	0	0	0	0	0	0	5	

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

TABLE A-5A
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS *****												RESIDENT NATURAL INCREASE	
			BIRTH			--LOW BIRTH MGT			ALL DEATHS----			+---INFANT----			+---NEONATAL--							
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML	TOTL	MALE	FEML		
WASHINGTON	0	10	6	4	2	0	0	0	11	3	8	0	0	0	0	0	0	0	0	0	-5	
WATERTOWN	1	142	384	211	173	19	11	8	378	189	189	2	2	0	2	2	0	0	0	0	6	
WAYLAND	1	57	140	84	56	5	4	1	107	41	66	1	0	1	1	0	1	0	1	0	33	
WEBSTER	0	242	200	94	106	17	9	8	203	93	110	1	0	1	1	0	1	0	1	0	-3	
WELLESLEY	4	105	280	143	137	4	2	2	218	84	134	2	0	2	1	0	1	0	1	0	62	
WELLFLEET	0	13	29	17	12	1	0	1	37	18	19	0	0	0	0	0	0	0	0	0	-8	
WENDELL	0	1	13	7	6	0	0	0	5	2	3	0	0	0	0	0	0	0	0	0	8	
WENHAM	0	5	44	24	20	2	0	2	30	21	9	0	0	0	0	0	0	0	0	0	14	
WEST BOYLSTON	1	27	61	33	28	5	3	2	67	36	31	0	0	0	0	0	0	0	0	0	-6	
WEST BRIDGENATER	1	9	77	42	35	3	1	2	76	37	39	1	1	0	1	1	0	0	0	0	1	
WEST BROOKFIELD	1	52	39	22	17	2	0	2	31	20	11	1	1	0	1	1	0	0	0	0	8	
WEST NEWBURY	1	4	36	22	14	4	3	1	23	13	10	1	1	0	1	1	0	0	0	0	13	
WEST SPRINGFIELD	1	105	394	189	205	23	7	16	266	128	138	7	4	3	4	3	1	0	0	0	128	
WEST STOCKBRIDGE	0	0	19	10	9	1	0	1	10	6	4	0	0	0	0	0	0	0	0	0	9	
WEST TISBURY	2	5	39	25	14	2	1	1	8	3	5	0	0	0	0	0	0	0	0	0	31	
WESTBOROUGH	0	68	165	83	82	8	5	3	101	45	56	2	1	1	1	0	1	0	1	0	64	
WESTFIELD	2	489	520	282	238	43	27	16	361	180	181	6	5	1	5	4	1	0	0	0	159	
WESTFORD	0	28	237	116	121	12	5	7	89	51	38	1	1	0	1	1	0	0	0	0	148	
WESTHAMPTON	0	1	17	9	8	0	0	0	5	3	2	0	0	0	0	0	0	0	0	0	12	
WESTMINSTER	1	6	62	30	32	5	2	3	40	24	16	1	1	0	0	0	0	0	0	0	22	
WESTON	1	41	113	57	56	2	1	1	89	45	44	0	0	0	0	0	0	0	0	0	24	
WESTPORT	2	26	134	63	71	5	3	2	105	62	43	0	0	0	0	0	0	0	0	0	29	
WESTWOOD	1	14	153	79	74	6	3	3	100	45	55	0	0	0	0	0	0	0	0	0	53	
WEYMOUTH	1936	907	746	360	386	36	19	17	509	267	242	6	3	3	5	2	3	0	0	0	237	

TABLE A-5A (CONTINUED)
BIRTHS AND DEATHS BY TOWN OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****										RESIDENT NATURAL INCREASE
			BIRTH			--LOW BIRTH WGT			ALL DEATHS----			---INFANT----			---NEONATAL--				
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML		
WHATELY	2	4	17	7	10	2	1	1	5	4	1	0	0	0	0	0	0	12	
WHITMAN	2	14	227	121	106	23	13	10	110	50	60	2	1	1	2	1	1	117	
WILBRAHAM	0	14	122	70	52	3	2	1	82	47	35	0	0	0	0	0	0	40	
WILLIAMSBURG	0	0	35	16	19	1	1	0	9	4	5	0	0	0	0	0	0	26	
WILLIAMSTOWN	0	79	64	33	31	1	1	0	93	44	49	0	0	0	0	0	0	-29	
WILMINGTON	0	38	211	123	88	5	4	1	101	57	44	1	1	0	1	1	0	110	
WINCHENDON	0	28	121	58	63	8	6	2	90	51	39	0	0	0	0	0	0	31	
WINCHESTER	1410	318	240	105	135	12	4	8	172	73	99	1	0	1	1	0	1	68	
WINDSOR	0	9	11	8	3	1	0	1	4	3	1	0	0	0	0	0	0	7	
WINTHROP	0	266	190	99	91	9	3	6	247	120	127	4	2	2	3	1	2	-57	
WOBURN	3	316	501	269	232	21	11	10	304	147	157	4	1	3	3	0	3	197	
WORCESTER	6023	3267	2516	1274	1242	153	73	80	1963	967	996	29	15	14	19	10	9	553	
WORTHINGTON	0	6	18	13	5	2	1	1	11	8	3	0	0	0	0	0	0	7	
WRENTHAM	1	57	126	59	67	11	4	7	75	31	44	2	1	1	2	1	1	51	
YARMOUTH	1	102	212	101	111	8	2	6	319	167	152	2	0	2	0	0	0	-107	
STATE TOTAL	83722	56472	82163	42094	40069	4641	2218	2423	55860	27115	28745	695	375	320	478	252	226	26303	

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

1 BIRTH OF UNKNOWN SEX HAS BEEN ADDED TO TOTAL RESIDENT MALE BIRTHS.

1 DEATH OF UNKNOWN SEX HAS BEEN ADDED TO TOTAL RESIDENT MALE DEATHS.

FOUR BIRTHS OF UNKNOWN LOCATION PREVIOUSLY PUBLISHED IN "MASSACHUSETTS
ADVANCE DATA--NATALITY 1986" HAVE BEEN IDENTIFIED IN THIS TABLE.

TABLE A-5B
BIRTHS AND DEATHS BY COUNTY OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

C O U N T Y	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****										RESIDENT NATURAL INCREASE
	BIRTHS	DEATHS	BIRTH		--LOW BIRTH WGT				ALL DEATHS----			---INFANT----			--NEONATAL--				
			TOTAL	MALE FEMALE	TOTAL	MALE FEM	TOTAL	MALE FEMALE	TOTL	MALE FEM	TOTL	MALE FEM	TOTL	MALE FEM					
BARNSTABLE	1707	2034	2125	1102	1023	86	31	55	2171	1018	1153	18	4	14	12	1	11	-44	
BERKSHIRE	1982	1643	1719	904	815	104	52	52	1558	751	807	12	9	3	7	4	3	161	
BRISTOL	5608	4142	6782	3472	3310	380	183	197	4551	2272	2279	52	31	21	39	23	16	2231	
DUKES	153	126	175	89	86	6	4	2	125	58	67	0	0	0	0	0	0	50	
ESSEX	8990	6054	9703	4957	4746	512	231	281	6425	3067	3358	78	37	41	52	25	27	3278	
FRANKLIN	883	587	924	493	431	48	22	26	699	354	345	13	4	9	8	0	8	225	
HAMPDEN	6998	4845	6533	3432	3101	421	211	210	4658	2251	2407	72	45	27	50	33	17	1875	
HAMPSHIRE	1361	852	1405	690	715	69	31	38	1060	541	519	14	12	2	10	9	1	345	
MIDDLESEX	17806	11604	18412	9390	9022	933	452	481	12020	5688	6332	119	64	55	85	46	39	6392	
NANTUCKET	75	58	80	40	40	0	0	0	68	33	35	1	1	0	0	0	0	12	
NORFOLK	5965	4855	7816	3993	3823	363	165	198	5805	2774	3031	59	32	27	38	19	19	2011	
PLYMOUTH	2322	3192	6494	3392	3102	351	172	179	3655	1793	1862	46	25	21	32	16	16	2839	
SUFFOLK	20562	10034	10311	5228	5083	831	408	423	6644	3307	3337	139	71	68	100	52	48	3667	
WORCESTER	9310	6446	9684	4912	4772	537	256	281	6421	3208	3213	72	40	32	45	24	21	3263	
STATE TOTAL	83722	56472	82163	42094	40069	4641	2218	2423	55860	27115	28745	695	375	320	478	252	226	26303	

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

1 BIRTH OF UNKNOWN SEX HAS BEEN ADDED TO TOTAL RESIDENT MALE BIRTHS.

1 DEATH OF UNKNOWN SEX HAS BEEN ADDED TO TOTAL RESIDENT MALE DEATHS.

FOUR BIRTHS OF UNKNOWN LOCATION PREVIOUSLY PUBLISHED IN "MASSACHUSETTS
ADVANCE DATA--NATALITY 1986" HAVE BEEN IDENTIFIED IN THIS TABLE.

TABLE A-5C
BIRTHS AND DEATHS BY HSA OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1984

	OCCURRENCE		*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****										RESIDENT
			BIRTH	--LOW BIRTH WGT					ALL DEATHS----- ---INFANT----- ---NEONATAL--										NATURAL
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMF	TOTAL	MALE	FEMALE	TOTL	MALE	FEMFL	TOTL	MALE	FEMFL	INCREASE	
HSA																			
AND SUBAREA																			
BERKSHIRE	1982	1645	1724	906	818	104	52	52	1565	753	812	12	9	3	7	4	3	189	
NORTHERN VALLEY	1997	1428	2044	1056	988	96	43	53	1539	772	767	18	8	10	12	3	9	505	
SOUTHERN VALLEY	7243	5019	6998	3650	3348	454	226	228	5033	2449	2584	80	52	28	56	39	17	1965	
I WESTERN MASS	11222	8092	10766	5612	5154	654	321	333	8137	3976	4163	110	69	41	75	46	29	2629	
NORTH	2305	1566	3562	1795	1767	163	62	101	1909	965	944	21	8	13	8	2	6	1683	
CENTRAL	6026	3630	3452	1749	1703	214	104	110	2406	1289	1317	35	20	15	23	14	9	846	
SOUTH	987	1269	3683	1869	1814	199	106	93	2040	1042	998	22	14	8	15	8	7	1643	
II CENTRAL MASS	9318	6465	10697	5413	5284	576	272	304	6555	3296	3259	78	42	36	46	24	22	4142	
GREATER LOWELL	2516	1838	3855	1999	1856	208	109	99	1919	933	906	26	13	13	18	9	9	1936	
GREATER LAWRENCE	2882	1530	2630	1347	1283	168	79	89	1533	755	778	29	13	16	21	9	12	1097	
GTR HAVER-NEMBRT	1401	1133	1894	972	922	92	42	50	1163	549	614	13	8	5	11	7	4	731	
III MERRIMACK	6799	4501	8379	4318	4061	468	230	238	6615	2237	2378	68	34	34	50	25	25	3764	
METRO CENTRAL	20570	10264	10883	5513	5370	862	414	448	7240	3562	3678	144	73	71	103	52	51	3443	
METRO NORTHWEST	4860	4225	5413	2784	2629	284	140	144	3960	1851	2109	38	21	17	32	18	14	1453	
METRO WEST	6118	3627	5924	2994	2930	288	131	157	4069	1871	2198	34	16	18	25	12	13	1855	
METRO SOUTHWEST	991	1047	2274	1153	1121	104	46	58	1362	663	699	16	10	6	10	6	4	912	
METRO SOUTH	2719	2785	3778	1905	1873	186	87	99	3171	1520	1651	27	13	14	16	7	9	607	
IV METRO	35258	21948	28272	14349	13923	1724	818	906	19802	9467	10335	259	133	126	186	95	91	8470	

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

TABLE A-5C
BIRTHS AND DEATHS BY HSA OF OCCURRENCE AND RESIDENCE WITH NATURAL INCREASE
1986

			*** RESIDENT BIRTHS **						***** RESIDENT DEATHS ****									RESIDENT NATURAL INCREASE
	OCCURRENCE		BIRTH		--LOW BIRTH WGT		ALL DEATHS----			----INFANT----			---NEONATAL---					
	BIRTHS	DEATHS	TOTAL	MALE	FEMALE	TOTAL	MALE	FEML	TOTAL	MALE	FEMALE	TOTL	MALE	FEML	TOTL	MALE	FEML	
HSA AND SUBAREA																		
ATTLEBORO	995	483	1531	822	709	68	30	30	630	304	326	14	9	5	10	6	4	90
BROCKTON	3474	2183	3233	1706	1527	194	106	88	1858	910	948	29	18	11	22	13	9	1375
PLYMOUTH	799	794	2397	1261	1136	120	59	61	1129	594	535	14	9	5	8	5	3	1268
TAUNTON-MIDDLEBORO	668	767	1584	830	754	83	41	42	928	473	455	12	7	5	9	5	4	656
FALL RIVER	1917	1621	1905	950	955	98	48	50	1561	802	759	11	9	2	9	8	1	344
NEW BEDFORD	2033	1553	2139	1078	1061	136	64	72	1734	834	900	17	8	9	12	5	7	405
CAPE COD	2219	2472	2648	1361	1287	106	36	70	2585	1211	1374	23	5	18	16	1	15	63
V SOUTH SHORE	12105	9873	15437	8008	7429	805	384	421	10425	5128	5297	120	65	55	86	43	43	5012
CAPE ANN	1701	961	1474	801	673	50	21	29	1047	477	570	10	4	6	4	2	2	427
DANVERS-SALEM	2081	1272	1696	840	856	98	42	56	1235	587	648	7	3	4	4	2	2	461
GREATER LYNN	925	1158	2009	997	1012	104	47	57	1447	699	748	19	9	10	12	5	7	562
EASTERN MIDDLESEX	2208	899	1476	749	727	70	32	38	1034	491	543	15	11	4	11	7	4	442
TRI-CITIES	2105	1303	1957	1007	950	92	51	41	1563	759	804	9	5	4	4	3	1	394
VI NORTH SHORE	9020	5593	8612	4394	4218	414	193	221	6326	3013	3313	60	32	28	35	19	16	2286
STATE TOTAL	83722	56472	82163	42094	40069	4641	2218	2423	55860	27115	28745	695	375	320	478	252	226	26303

*LOW BIRTHWEIGHT ARE BIRTHS OF LESS THAN 2,500 GRAMS.

1 BIRTH OF UNKNOWN SEX HAS BEEN ADDED TO TOTAL RESIDENT MALE BIRTHS.

1 DEATH OF UNKNOWN SEX HAS BEEN ADDED TO TOTAL RESIDENT MALE DEATHS.

FOUR BIRTHS OF UNKNOWN LOCATION PREVIOUSLY PUBLISHED IN "MASSACHUSETTS
ADVANCE DATA--NATALITY 1986" HAVE BEEN IDENTIFIED IN THIS TABLE.

NATALITY



SECTION B

NATALITY

A nine-year trend of increasing numbers of births to Massachusetts residents continued in 1986. There were 82,163 live births to Massachusetts residents in 1986, which represented a 0.5% increase over the 81,776 resident live births in 1985. Live births to Massachusetts residents include all births to Massachusetts residents, regardless of the state in which they occurred. Most data presented in this section are resident data. Table B-8 gives births by hospital of occurrence.

OCCURRENCE BIRTHS

In 1986, 83,722 births occurred in Massachusetts. All but 663 births occurred at the 58 hospitals with maternity units. The number of births performed at these hospitals ranged from 74 at Nantucket Cottage Hospital to 9,564 at Brigham and Women's Hospital. The median number of births per hospital was 1,090, a slight increase from the median number of 1,082 in 1985. The four hospitals with the largest number of births — Brigham and Women's (9,564), Bay State Medical Center (5,637), Beth Israel (4,601) and St. Margaret's (3,564) represent almost 28% of all births occurring in Massachusetts. Distribution of births among Massachusetts hospitals is more diverse than in many states. In Rhode Island, for example, more than 1/2 of the births are delivered in one hospital. The distribution of Massachusetts births by hospital size is presented below. These data have shown little change in the past several years.

1986 DISTRIBUTION OF MASSACHUSETTS OCCURRENCE BIRTHS

NUMBER OF BIRTHS	NO. OF HOSPITALS IN CATEGORY	TOTAL NO. OF BIRTHS IN CATEGORY	% OF TOTAL BIRTHS
<500	11	2,964	3.5%
500-999	16	12,375	14.8%
1000-1499	14	17,181	20.5%
1500-1999	6	10,850	13.0%
≥2000	11	39,689	47.4%
ALL OTHER*	1	663	0.8%
TOTAL	58	83,722	100.0%

*Includes home births

HOME BIRTHS

What appears to be a growing public interest in home births is not reflected in the reported numbers: less than 1% of births occurred at home. In fact, home births may be under-counted in the data presented. Home births, much more than hospital births, may be recorded as delayed records rather than reported at the time of birth. Delayed records are not included in these numbers.

BIRTHS BY RACE

The number of births by race of infant remained relatively constant, with over 86% of the births to Massachusetts residents being white. There are a number of points to keep in mind when analyzing data by race. First, there has been a growing problem with non-response to this item. More than 3% of the certificates received had no information on race. Another major problem occurs with the lack of precise data on Massachusetts' Hispanic population prior to June, 1986. The question as asked on the January-May 1986 birth certificate was limited to a race question. In many cases, individuals with an Hispanic ethnicity selected a race code rather than provide a response of Hispanic. If the response was Hispanic, however, these births are included in the larger category of "white". The new birth certificate, introduced in June 1986, collects information on both race and ethnicity and provides improved data on Hispanics. Presented below are data for seven months utilizing the race and ethnicity information:

RACE AND ETHNICITY OF MOTHER JUNE - DECEMBER, 1986

MATERNAL RACE/ETHNICITY	TOTAL BIRTHS	% OF TOTAL
White non-Hispanic	38,759	81.9%
Black non-Hispanic	3,090	6.5%
Hispanic	2,949	6.2%
Asian	1,372	2.9%
Other	137	0.3%
Unknown	989	2.1%
TOTAL	47,296	99.9%*

*Percent does not sum to 100.0 because of rounding.

The final point which must be considered is the method used to present data by race. On the birth certificate, information is collected on mother's race and father's race. From these two items, a race for the infant is generated using standards set by the National Center for Health Statistics. Depending on the use of the data, race data may be presented by race of infant or race of mother. If, for example, access to prenatal care is being analyzed, the information may be better presented by race of mother rather than race of infant. Although the

differences in the numbers when comparing race of mother to race of infant are not substantial, the impact on rates may be significant because of the relatively small percentage of births to non-whites in Massachusetts. In 1986, the differences were as follows:

RACE OF:	WHITE	NONWHITE	UNKNOWN	TOTAL
INFANT	70,953	8,726	2,484	82,163
MOTHER	71,852	7,705	2,606	82,163

On the birth certificates, if the race of one parent is unknown, the child is automatically assigned to the race of the parent whose race is given. On the death certificates, only the race of the infant is provided; therefore, using the race of mother for the denominator would not provide consistent data. If, however, infant mortality rates are computed by race, the race of the infant must be used to provide consistent data.

TEEN BIRTHS

The actual number and percentage of births to mothers between the ages of 15 and 19 decreased from 1985 (accounting for 8.2%, or 6,754 of total births). However, the age-specific birth rate increased slightly from 29.5 to 30.1 because the population of females 15 to 19 years old decreased, thus decreasing the denominator of the rate.

BIRTHS BY MARITAL STATUS

The proportion of unmarried mothers continued to increase to 19.3% of total births. Over 74% of the births to women under the age of 20 were out of wedlock. Births to women under the age of 20 represent only 8.3% of total births, but more than 42% of the births to unmarried mothers.

BIRTHS BY AGE OF MOTHER

The actual numeric increases in births between the years 1985 and 1986 have been to older mothers as demonstrated below:

AGE OF MOTHER	DIFFERENCE IN BIRTHS 1985-1986	% CHANGE
<20	-119	-1.7%
20-24	-954	-4.9%
25-29	-38	-0.1%
30-34	+962	+4.9%
35-39	+356	+5.5%
40-44	+74	+9.6%
>44	+41	+256.2%

BIRTHS BY C-SECTION

The number of Cesarean sections to Massachusetts residents continued to rise from 18,000 in 1985 to 18,522 in 1986. The rate per 1,000 live births also increased from 220.1 to 225.4. Although the lowest rate of C-Sections was for mothers under the age of 15 (123.7 per 1,000 live births), and the highest being for women over the age of 44 (315.8), the small number of births to women in these age groups makes these numbers very unstable. An important trend, however, is the increase to 231.2 in 1986 from 217.7 C-Sections per 1,000 live births in 1985 for women age 25-29.

LOW BIRTHWEIGHT BABIES

The percentage of low birthweight babies (less than 2,500 grams or five pounds eight ounces) declined slightly from 5.8% of total births in 1985 to 5.6% (4,641 births). Young mothers continue to have a disproportionate number of low birthweight babies. The percentage of low birthweight babies born to mothers under the age of 20 increased from 8.5% to 8.7%.

HEALTH OBJECTIVES FOR 1990

The U.S. Department of Health and Human Services has developed health objectives for 1990 in numerous areas (HEALTHY PEOPLE: Surgeon General's Report on Health Promotion and Disease Prevention; 1979). 1986 is a good place to assess where Massachusetts stands for the objectives that may be measured with data obtained from birth certificates. There are two objectives regarding low birthweight infants which may be considered.

1990 OBJECTIVE:

Low birthweight babies (less than 2,500 grams) should constitute not more than 5% of all live births.

No county or racial or ethnic group of the population should have a rate of low birthweight babies that exceeds 9% of all live births for that population.

MASSACHUSETTS—1986:

4,641 births or 5.6% of less than 2,500 grams. This percentage declined from 5.8% in 1985 and should be achievable by 1990.

In 1985, all Massachusetts counties met the 1990 objective. In 1986, however, Bristol County rose from 6.51% to 10.47% and Suffolk County from 8.2% to 10.07%.

COUNTY	PERCENTAGE OF LOW BIRTHWEIGHT BABIES
--------	---

BARNSTABLE	4.61%
BERKSHIRE	6.22%
BRISTOL	10.47%
DUKES	4.00%
ESSEX	5.71%
FRANKLIN	5.95%
HAMPTON	6.57%
HAMPSHIRE	5.27%
MIDDLESEX	6.14%
NANTUCKET	0.00%
NORFOLK	6.42%
PLYMOUTH	6.16%
SUFFOLK	10.07%
WORCESTER	6.44%

There is a continuing problem with the objective by race. For 1986, the percentage of black infants with a low birthweight rose from 10.9% to 11.3%:

RACE	PERCENTAGE OF LOW BIRTHWEIGHT BABIES
------	---

WHITE	5.1%
BLACK	11.3%
OTHER	6.0%
UNKNOWN	8.2%

During the last seven months (June-December) of 1986, Massachusetts had implemented a new birth certificate which provides more specific race and ethnicity data:

RACE

PERCENTAGE OF LOW BIRTHWEIGHT BABIES (June-December 1986)

White non-Hispanic	4.8%
Black non-Hispanic	11.1%
Hispanic	7.6%
Asian	5.9%
Other	6.6%
Unknown	7.4%

DEFINITIONS AND RATES IMPORTANT FOR THIS SECTION INCLUDE:

LIVE BIRTH

A live birth is the complete expulsion or extraction from its mother of a product of conception, regardless of the duration of pregnancy, which, after separation, breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord, or definite movement of voluntary muscles.

BIRTHWEIGHT

Weight of an infant or fetus at the time of delivery. It may be recorded in either pounds/ounces or grams; if it is the former, it is converted to grams for use in this report.

MATURE BIRTHWEIGHT

Weight at delivery which equals or exceeds 2,500 grams.

LOW BIRTHWEIGHT

Weight at delivery of less than 2,500 grams.

GENERAL FERTILITY RATE

$\frac{\text{No. of Resident Live Births}}{\text{Total Female Population of Childbearing Age (15-44)}} \times 1,000$

AGE-SPECIFIC FERTILITY RATE

$\frac{\text{No. of Resident Live Births for a Specific Age of Mother}}{\text{Total Female Population of That Specific Age}} \times 1,000$

TABLE B-1
RESIDENT BIRTHS BY SEX AND RACE OF INFANT
1986

RACE	TOTAL	MALE	FEMALE
	n %	n %	n %
TOTAL	82,163* 100.0	42,093 51.2	40,069 48.8
WHITE	70,953* 86.4	36,395 44.3	34,557 42.1
BLACK	6,063 7.4	3,059 3.7	3,004 3.7
OTHER	2,663 3.2	1,353 1.6	1,310 1.6
UNKNOWN	2,484 3.0	1,286 1.6	1,198 1.4

*TOTAL INCLUDES ONE BIRTH OF UNKNOWN SEX.

FIGURE B - 1
RESIDENT BIRTHS BY RACE OF INFANT
1970-1986

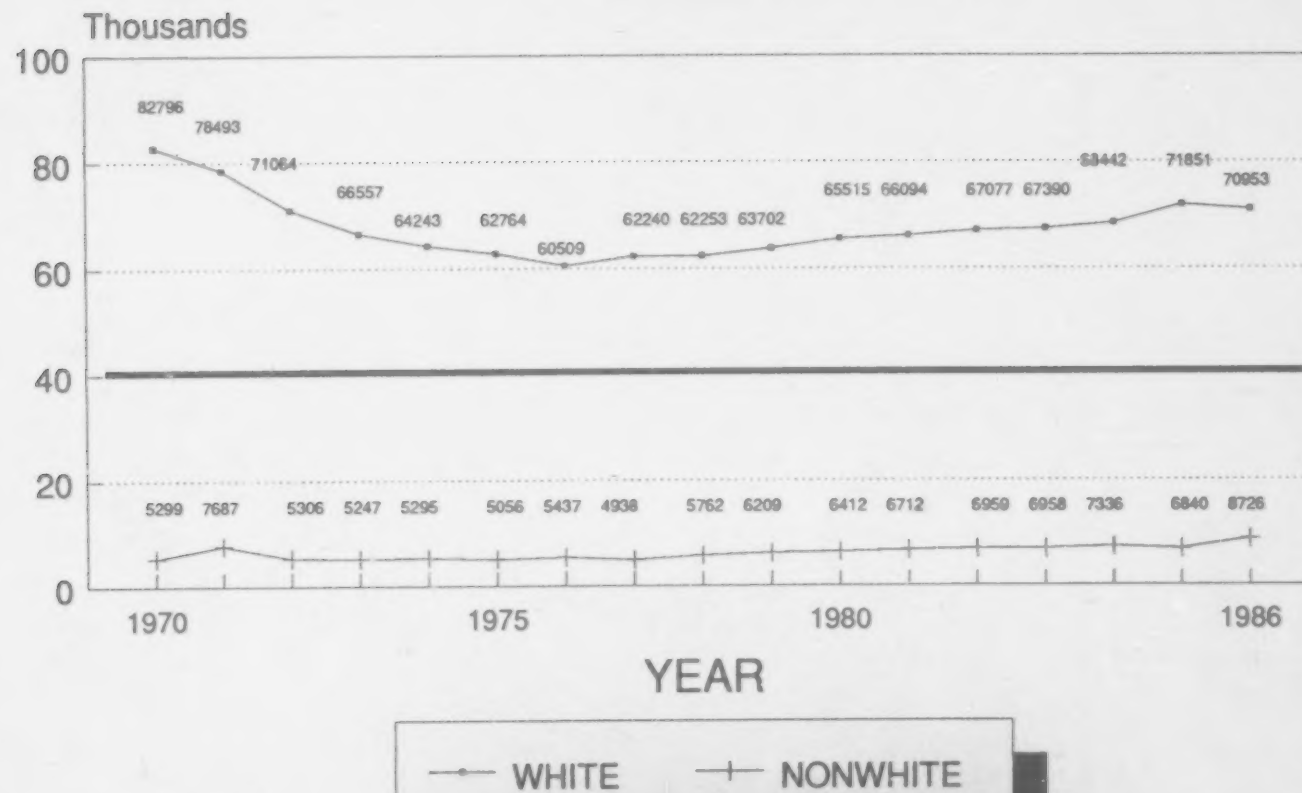


FIGURE B - 2
RESIDENT LIVE BIRTHS BY RACE OF INFANT
1986

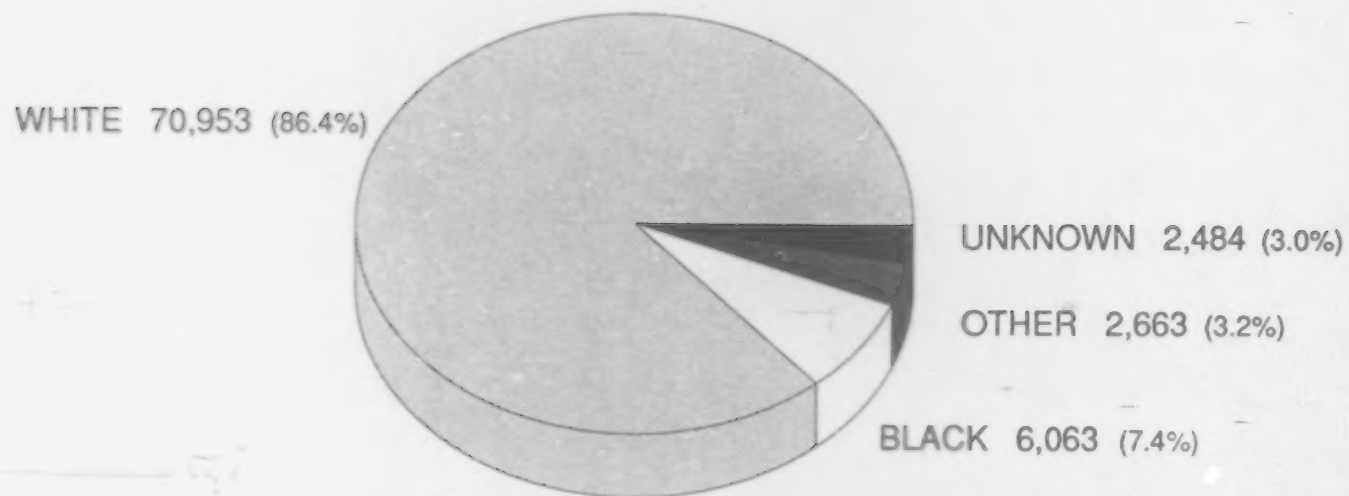


FIGURE B - 3
RESIDENT LIVE BIRTHS BY MOTHER'S AGE
1986

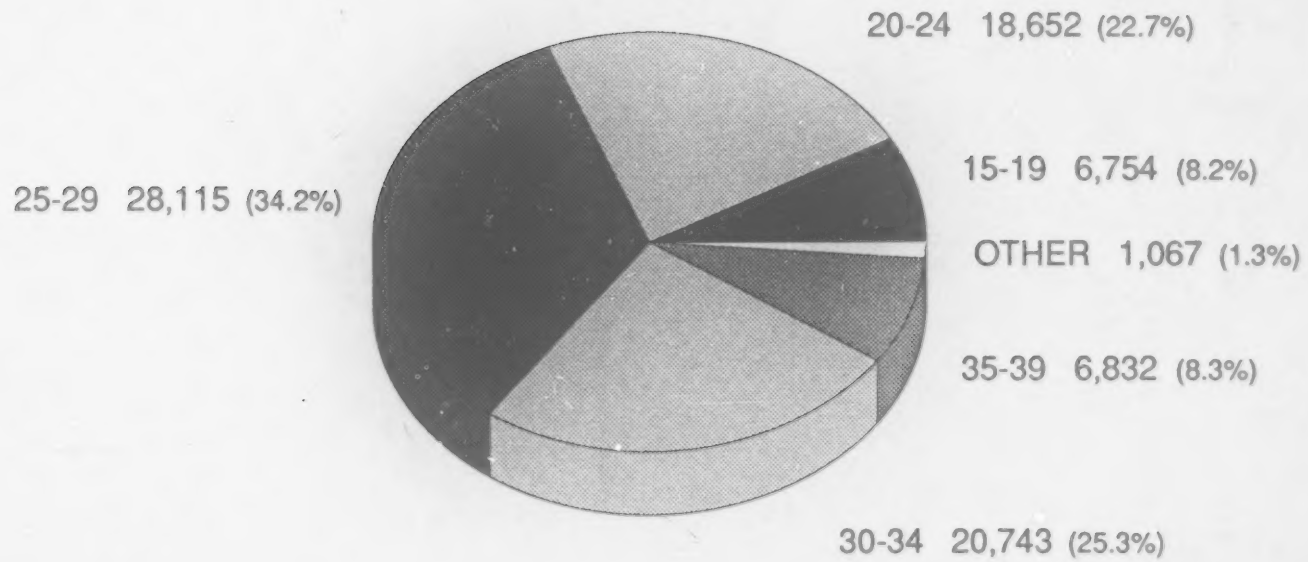


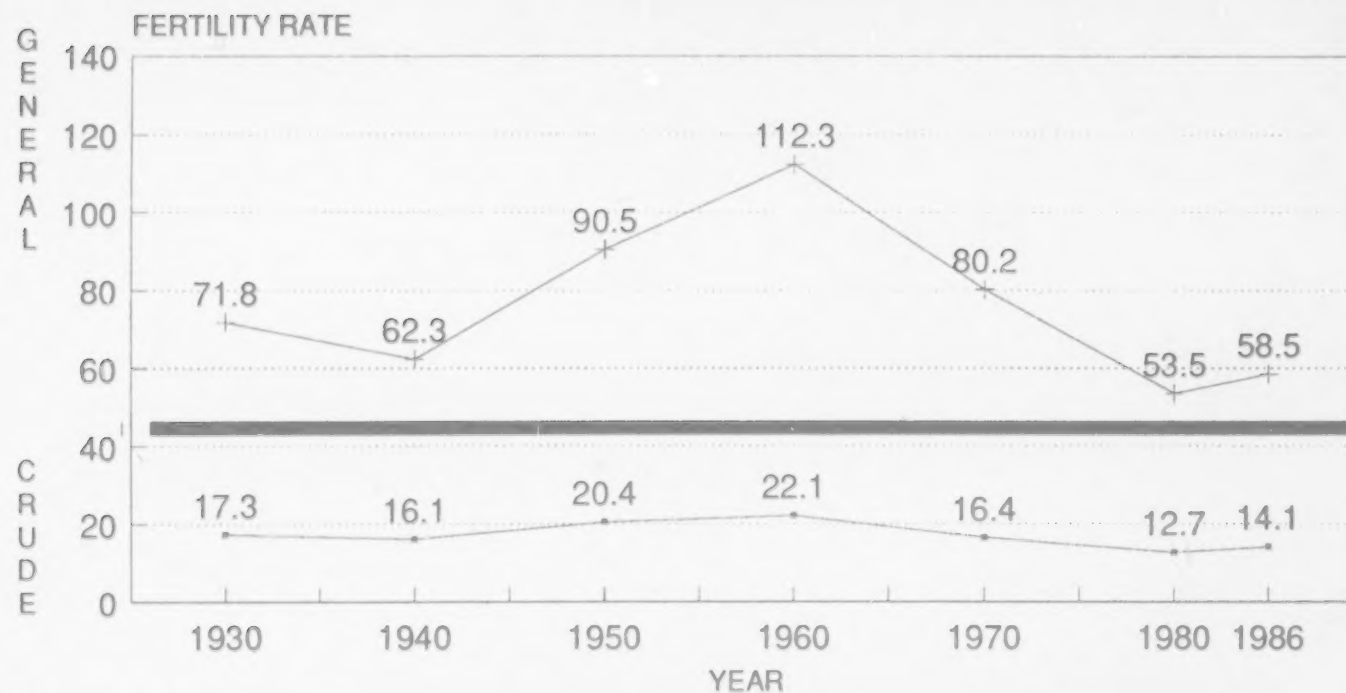
TABLE B-2
AGE-SPECIFIC BIRTH RATES AMONG MASSACHUSETTS WOMEN
1970-1986

AGE OF MOTHER	- 1986 -		- 1985 -		- 1980 -		- 1970 -	
	<u>Births</u> 1000	Rate	<u>Births</u> 1000	Rate	<u>Births</u> 1000	Rate	<u>Births</u> 1000	Rate
15-19	<u>6,754</u> 224.4	30.1	<u>6,857</u> 232.5*	29.5*	<u>7,694</u> 273.4	28.1	<u>10,177</u> 259.6	39.1
20-24	<u>18,652</u> 254.2	73.4	<u>19,606</u> 258.9*	75.7*	<u>21,514</u> 282.2	76.2	<u>33,808</u> 246.9	136.9
25-29	<u>28,115</u> 264.0	106.5	<u>28,153</u> 261.7*	107.6*	<u>24,959</u> 249.8	99.9	<u>29,184</u> 188.5	154.8
30-34	<u>20,743</u> 257.2	80.6	<u>19,781</u> 252.5*	78.3*	<u>14,389</u> 228.7	62.9	<u>12,887</u> 150.3	85.7
35-39	<u>6,832</u> 214.8	31.8	<u>6,476</u> 208.9*	31.0*	<u>3,464</u> 179.0	19.4	<u>5,771</u> 151.2	38.2
40-44	<u>847</u> 189.4	4.5	<u>773</u> 181.9*	4.2*	<u>478</u> 143.8*	3.3	<u>1,591</u> 170.4	9.3
MASSACHUSETTS GENERAL FERTILITY RATE		58.5		58.6*		53.5		80.2
UNITED STATES GENERAL FERTILITY RATE		64.9		66.2		67.7		87.9

NOTE: THE NUMERATOR OF THE BIRTHS PER THOUSAND WOMEN REPRESENTS THE NUMBER OF BIRTHS TO WOMEN IN THAT AGE GROUP. THE DENOMINATOR REPRESENTS THE NUMBER (IN THOUSANDS) OF WOMEN IN THAT AGE GROUP. THE 1985 AND 1986 DENOMINATORS ARE PROVIDED BY THE MASSACHUSETTS INSTITUTE FOR SOCIAL AND ECONOMIC RESEARCH (MISER). UNITED STATES FIGURES ARE DATA FROM THE NATIONAL CENTER FOR HEALTH STATISTICS.

*REVISED

FIGURE B - 4
GENERAL FERTILITY AND CRUDE BIRTH RATES
1930-1986



—●— CRUDE RATE

—+— GENERAL FERTILITY

TABLE B-3
RESIDENT BIRTHS BY MOTHER'S AGE, RACE AND MARITAL STATUS
1986

AGE OF MOTHER	- TOTAL -			- WHITE -			- NON-WHITE -			- UNKNOWN -		
	TOTAL	WED	UNWED	TOTAL	WED	UNWED	TOTAL	WED	UNWED	TOTAL	WED	UNWED
TOTAL*	82,163	65,877	16,286	71,852	59,971	11,881	7,705	4,206	3,499	2,606	1,700	906
UNDER 15	97	1	96	71	1	70	24	0	24	- 2	0	2
15	334	10	324	236	10	226	81	0	81	17	0	17
16	712	97	615	538	88	450	151	4	147	23	5	18
17	1,233	211	1,022	993	192	801	195	15	180	45	4	41
18	1,954	496	1,458	1,613	457	1,156	288	34	254	53	5	48
19	2,521	959	1,562	2,094	879	1,215	354	60	294	73	20	53
20-24	18,652	12,900	5,752	16,081	11,805	4,276	2,035	817	1,218	536	278	258
25-29	28,115	24,825	3,290	24,947	22,677	2,270	2,338	1,565	773	830	583	247
30-34	20,743	19,237	1,506	18,486	17,500	986	1,557	1,181	376	700	556	144
35-39	6,832	6,307	525	5,978	5,641	337	568	447	121	286	219	67
40-44	847	742	105	717	644	73	94	72	22	36	26	10
OVER 44	57	48	9	42	37	5	11	7	4	4	4	0
UNKNOWN	66	44	22	56	40	16	9	4	5	1	0	1

*UNWED FIGURES INCLUDE 432 RECORDS WITH UNKNOWN MARITAL STATUS.

TABLE B-4
PARITY* BY AGE OF MOTHER, RESIDENT BIRTHS
1986

AGE OF MOTHER	TOTAL	1st	2nd	3rd	4th	5th	6th	7th	8th+	9th+	UN- KNOWN
	N %	N %	N %	N %	N %	N %	N %	N %	N %	N %	N %
TOTAL	82,163 100.0	34,608 42.12	25,814 31.42	11,205 13.64	3,532 4.30	1,047 1.27	404 .50	182 .22	85 .10	59 .07	5,227 6.36
10-14	97 .12	88 .11	1	0	0	0	0	0	0	0	8 .01
15-19	6,754 8.22	5,106 6.21	966 1.18	177 .22	14 .02	2	0	0	0	0	489 .59
20-24	18,652 22.70	9,738 11.85	5,535 6.74	1,731 2.11	379 .46	85 .10	19 .02	5 .01	0	0	1,160 1.41
25-29	28,115 34.22	11,568 14.08	9,480 11.54	5,872 7.14	1,077 1.31	274 .33	89 .11	27 .03	12 .02	2	1,714 2.09
30-34	20,743 25.25	6,269 7.63	7,408 9.02	3,834 4.67	1,307 1.59	397 .48	138 .17	67 .08	24 .03	12 .02	1,287 1.56
35-39	6,832 8.31	1,629 1.98	2,197 2.67	1,418 1.73	652 .79	236 .29	113 .14	58 .07	29 .03	22 .03	478 .58
40-44	847 1.03	174 .21	199 .24	152 .18	95 .12	50 .06	41 .05	24 .03	16 .02	18 .02	78 .10
45+	57 .07	12 .02	8 .01	10 .01	5 .01	3	3	1	4	5 .01	6 .01
UNKNOWN AGE	66 .08	24 .03	20 .02	11 .01	3	0	1	0	0	0	7 .01

*THE NUMBER OF LIVE BIRTHS INCLUDING THIS EVENT.

PERCENTAGES GREATER THAN 0 BUT LESS THAN 0.01 ARE NOT PRESENTED.

TABLE B-5
RESIDENT BIRTHS TO TEENAGE MOTHERS
1970-1986

YEAR	TOTAL BIRTHS	- AGE OF MOTHER -								TOTAL 12-19	PERCENT OF TOTAL BIRTHS
		12	13	14	15	16	17	18	19		
1970	93,582	3	8	70	320	802	1,726	3,043	4,285	10,257	11.0
1971	86,755	3	23	84	313	875	1,738	2,981	4,000	10,017	11.5
1972	76,835	1	20	103	348	955	1,841	2,834	3,690	9,792	12.7
1973	72,237	0	12	93	393	959	1,759	2,584	3,282	9,082	12.6
1974	70,071	2	16	79	333	895	1,762	2,524	3,181	8,792	12.5
1975	66,070	2	16	84	325	915	1,678	2,560	3,085	8,667	12.7
1976	65,847	7	12	96	336	807	1,478	2,332	2,923	7,991	12.1
1977	67,638	1	16	66	270	792	1,477	2,293	2,913	7,832	11.5
1978	66,526	3	15	67	303	737	1,445	2,252	2,979	7,801	11.4
1979	70,568	2	9	70	283	773	1,413	2,306	2,916	7,772	11.0
1980	72,591	1	14	56	300	740	1,360	2,202	3,092	7,765	10.7
1981	73,831	1	12	82	275	722	1,357	2,164	2,816	7,429	10.0
1982	75,749	1	14	83	299	753	1,328	2,161	2,722	7,361	9.7
1983	76,031	0	6	78	255	726	1,278	2,053	2,521	6,919	9.1
1984	78,198	1	8	75	265	714	1,307	2,061	2,585	7,016	9.0
1985	81,778	4	12	97	295	698	1,283	1,986	2,595	6,970	8.5
1986	82,163	0	15	82	334	712	1,233	1,954	2,521	6,851	8.3

TABLE B-6
NUMBER OF PRIMARY AND REPEAT CESAREAN SECTIONS BY AGE
RESIDENT BIRTHS
1986

AGE OF MOTHER	TOTAL CESAREAN DELIVERIES	TOTAL BIRTHS	RATE PER 1000 BIRTHS	PRIMARY CESAREAN DELIVERIES	% OF TOTAL	REPEAT CESAREAN DELIVERIES	% OF TOTAL
TOTALS	18,522*	82,163	225.4	11,829	63.9	6,693	36.1
<15	12	97	123.7	11	91.7	1	8.3
15-19	1,119	6,754	165.7	970	86.7	149	13.3
20-24	3,723	18,652	199.6	2,639	70.9	1,084	29.1
25-29	6,500	28,115	231.2	4,089	62.9	2,411	37.1
30-34	5,042	20,743	243.1	2,891	57.3	2,151	42.7
35-39	1,849	6,832	270.6	1,054	57.0	795	43.0
40-44	247	847	291.6	151	61.1	96	38.9
>44	18	57	315.8	14	77.8	4	22.2
UNKNOWN AGE	12	66	181.8	10	83.3	2	16.7

*Table 8 in "MASSACHUSETTS ADVANCE DATA--NATALITY 1986" CONTAINED OCCURRENCE DATA.
THESE DATA REPRESENT RESIDENT BIRTHS.

FIGURE B - 5
BIRTHWEIGHT DISTRIBUTION BY SEX
MASSACHUSETTS 1986

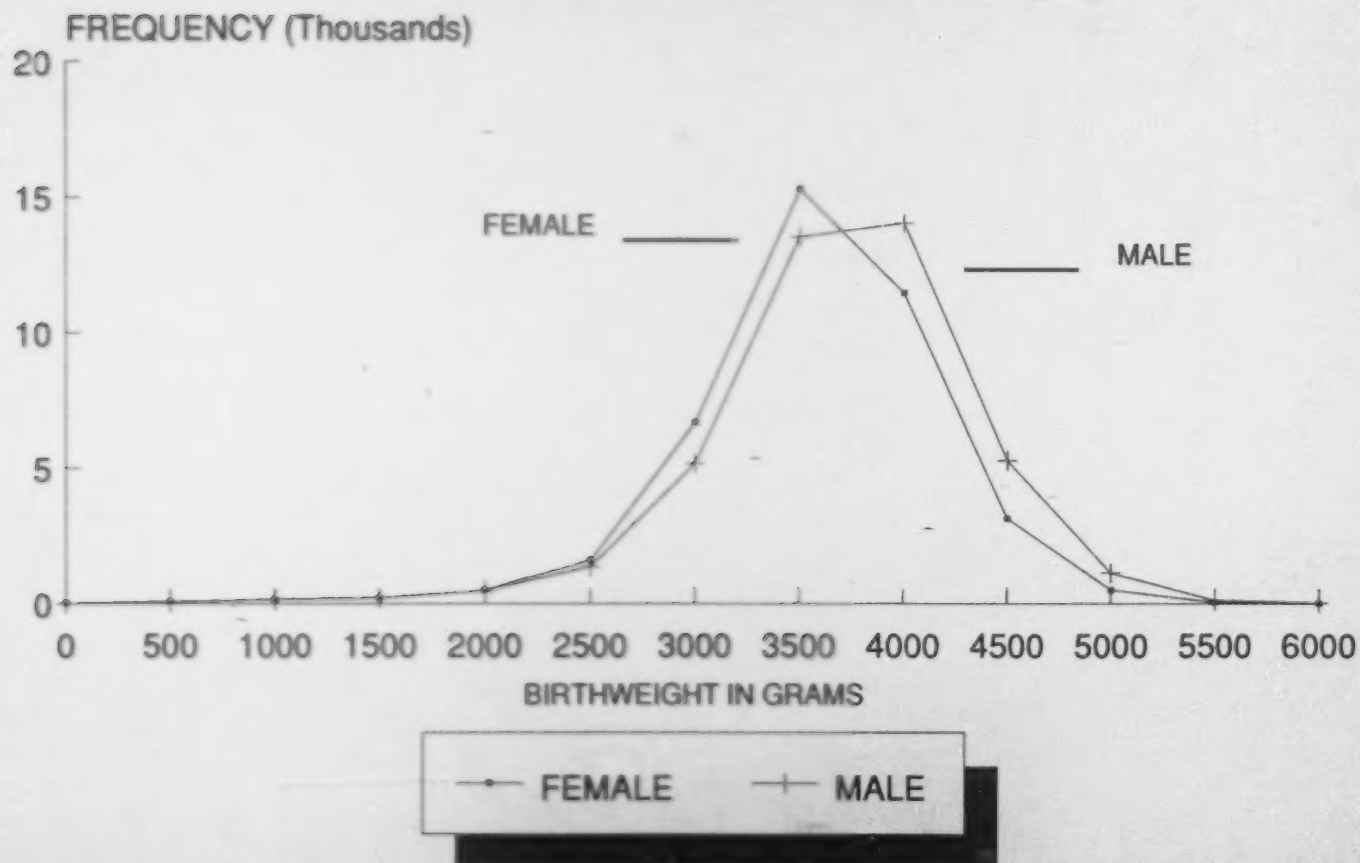


TABLE B-7
RESIDENT BIRTHS BY AGE AND MARITAL STATUS OF MOTHER AND BIRTHWEIGHT OF INFANT IN GRAMS
1986

BIRTH- WEIGHT gms	MARITAL STATUS	-TOTAL- n %	<15	15	16	17	18	19	20-24	25-29	30-34	35-39	40-44	>45	UN- KNW
TOTAL	MARRIED	65,877	1	10	97	211	496	959	12,900	24,825	19,237	6,307	742	48	44
	UNMARR.	15,854	95	319	614	1,018	1,448	1,551	5,658	3,147	1,393	483	99	9	20
	UNKNOWN	432	1	5	1	4	10	11	94	143	113	42	6	0	2
	GR. TOTAL	82,163	97	334	712	1,233	1,954	2,521	18,652	28,115	20,743	6,832	847	57	66
<500	MARRIED	61	0	0	0	0	0	0	17	23	15	6	0	0	0
	UNMARR.	38	1	0	4	2	6	3	9	8	3	1	1	0	0
	UNKNOWN	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	TOTAL	100 .1	1	0	4	2	6	3	27	31	18	7	1	0	0
500-999	MARRIED	179	0	0	1	0	3	0	41	62	52	17	3	0	0
	UNMARR.	93	1	4	3	3	9	10	29	20	10	4	0	0	0
	TOTAL	272 .3	1	4	4	3	12	10	70	82	62	21	3	0	0
1000-1499	MARRIED	259	0	0	0	2	2	3	63	73	71	33	10	1	1
	UNMARR.	138	1	1	8	7	6	17	39	33	18	6	0	1	1
	UNKNOWN	1	0	0	0	0	0	0	1	0	0	0	0	0	0
	TOTAL	398 .5	1	1	8	9	8	20	103	106	89	39	10	2	2
1500-1999	MARRIED	634	0	0	1	0	4	8	120	231	201	57	11	1	0
	UNMARR.	293	2	10	15	27	33	21	101	44	25	9	5	0	1
	UNKNOWN	2	0	0	0	0	0	0	0	1	1	0	0	0	0
	TOTAL	929 1.1	2	10	16	27	37	29	221	276	227	66	16	1	1
2000-2499	MARRIED	2,018	0	0	6	14	27	31	410	736	561	205	25	1	2
	UNMARR.	917	9	31	29	50	91	90	265	211	94	35	8	2	2
	UNKNOWN	7	0	0	0	1	0	0	1	3	2	0	0	0	0
	TOTAL	2,942 3.6	9	31	35	65	118	121	676	950	657	240	33	3	4
2500-2999	MARRIED	8,518	0	0	13	43	802	144	1,809	3,273	2,378	776	90	4	6
	UNMARR.	3,185	16	55	118	199	298	323	1,144	664	263	91	12	2	2
	UNKNOWN	33	0	1	0	0	1	2	9	10	8	2	0	0	0
	TOTAL	11,836 14.4	16	56	129	242	381	469	2,962	3,947	2,649	869	102	6	8
3000-3499	MARRIED	22,881	1	6	40	86	184	368	4,686	8,622	6,486	2,135	234	21	12
	UNMARR.	5,874	39	127	250	403	526	589	2,137	1,114	488	154	37	2	8
	UNKNOWN	77	0	0	0	0	0	2	21	24	21	7	1	0	1
	TOTAL	28,832 35.1	40	133	290	489	710	959	6,844	9,760	6,995	2,296	272	23	21
3500-3999	MARRIED	21,519	0	3	25	49	139	309	4,064	8,197	6,437	2,020	246	13	17
	UNMARR.	3,908	18	66	148	249	363	383	1,427	772	337	120	21	0	4
	UNKNOWN	62	0	0	0	1	1	0	10	22	17	10	1	0	0
	TOTAL	25,489 31.0	18	69	173	299	503	692	5,501	8,991	6,791	2,150	268	13	21
4000-4499	MARRIED	7,357	0	1	8	12	47	73	1,259	2,753	2,310	790	94	4	6
	UNMARR.	1,053	6	19	34	56	83	86	384	205	118	48	11	1	2
	UNKNOWN	16	0	1	0	0	0	0	4	8	2	1	0	0	0
	TOTAL	8,426 10.3	6	21	42	68	130	159	1,647	2,966	2,430	839	105	5	8
4500-4999	MARRIED	1,477	0	0	2	2	5	17	243	525	469	192	20	2	0
	UNMARR.	170	1	2	3	9	13	16	58	37	21	10	0	0	0
	UNKNOWN	1	0	0	0	0	0	0	0	0	1	0	0	0	0
	TOTAL	1,648 2.0	1	2	5	11	18	33	301	562	491	202	20	2	0
5000-8164	MARRIED	172	0	0	0	0	0	0	36	65	50	20	1	0	0
	UNMARR.	27	0	0	0	1	4	0	10	7	2	1	1	1	0
	TOTAL	199 .2	0	0	0	1	4	0	46	72	52	21	2	1	0
UNKNOWN	MARRIED	702	0	0	1	3	3	6	152	265	207	56	8	1	0
	UNMARR.	158	1	4	4	12	16	13	55	32	14	4	3	0	0
	UNKNOWN	232	1	3	1	2	8	7	47	61	22	4	0	1	0
	TOTAL	1,092 1.3	2	7	6	17	27	26	254	372	282	82	15	1	1

BIRTHWEIGHTS GREATER THAN 8165 GRAMS ARE DEFINED AS UNKNOWN BIRTHWEIGHT. 1000 GRAMS = 2.2 POUNDS.

TABLE B-8
BIRTHS BY HOSPITAL OF OCCURRENCE
1980-1986

HOSPITAL	CITY/TOWN	HSA SUB- AREA	1980	1985	1986	\$
ADDISON GILBERT	GLOUCESTER	61	372	336	291	.35
ANNA JAKES	NEWBURYPORT	33	771	830	793	.95
BAY STATE MEDICAL CTR.	SPRINGFIELD	13	5,254	5,778	5,637	6.73
BERKSHIRE MEDICAL CTR.	PITTSFIELD	11	1,395	1,344	1,412	1.69
BETH ISRAEL	BOSTON	41	3,284	4,306	4,601	5.50
BEVERLY	BEVERLY	61	702	1,188	1,288	1.54
BON SECOURS	METHUEN	32	1,192	1,284	1,209	1.44
BOSTON CITY	BOSTON	41	1,473	1,732	1,679	2.01
BRIGHAM & WOMEN'S	BOSTON	41	6,416	9,461	9,564	11.42
BROCKTON	BROCKTON	52	1,212	1,232	1,222	1.46
BURBANK	FITCHBURG	21	886	847	935	1.12
CAMBRIDGE CITY	CAMBRIDGE	42	627	554	490	.59
CAPE COD	BARNSTABLE	57	973	1,195	1,167	1.39
CHARLTON MEMORIAL	FALL RIVER	55	1,979	1,979	1,915	2.29
COOLEY DICKENSON	NORTHAMPTON	12	1,075	1,152	1,104	1.32
EMERSON	CONCORD	42	1,436	1,880	1,873	2.24
FAIRVIEW	GREAT BARRINGTON	11	127	140	116	.14
FALMOUTH	FALMOUTH	57	504	491	519	.62
FRAMINGHAM UNION	FRAMINGHAM	43	1,982	2,093	2,108	2.52
FRANKLIN COUNTY PUBLIC	GREENFIELD	12	836	869	864	1.03
GODDARD MEMORIAL	STOUGHTON	52	2,100	2,301	2,238	2.67
HARRINGTON MEMORIAL	SOUTHBRIDGE	23	511	530	548	.65
HAVERHILL MUNICIPAL	HAVERHILL	33	634	563	596	.71
HENRY HEYWOOD MEMORIAL	GARDNER	21	305	332	205	.24
HUNT MEMORIAL	DANVERS	62	480	665	690	.82
JORDAN	PLYMOUTH	53	683	793	792	.95

TABLE B-8 (continued)
BIRTHS BY HOSPITAL OF OCCURRENCE
1980-1986

HOSPITAL	CITY/TOWN	HSA SUB- AREA	1980	1985	1986	%
LAWRENCE GENERAL	LAWRENCE	32	1,497	1,578	1,659	1.98
LEOMINSTER	LEOMINSTER	21	794	1,107	1,141	1.36
LEONARD MORSE	NATICK	43	663	665	658	.79
LOWELL GENERAL	LOWELL	31	1,623	2,056	2,184	2.61
LYNN	LYNN	63	1,344	1,078	923	1.10
MALDEN	MALDEN	65	1,397	1,931	2,093	2.50
MARTHA'S VINEYARD	OAK BLUFFS	57	119	156	150	.18
MARY LANE	WARE	13	299	262	246	.29
MELROSE-WAKEFIELD	MELROSE	64	1,467	1,259	1,340	1.60
MILFORD-WHITINSVILLE	MILFORD	23	532	511	428	.51
MORTON	TAUNTON	54	785	641	659	.79
MOUNT AUBURN	CAMBRIDGE	42	866	1,085	1,032	1.23
NANTUCKET COTTAGE	NANTUCKET	57	55	89	74	.09
NEW ENGLAND MEMORIAL	STONEHAM	64	859	906	864	1.03
NEWTON-WELLESLEY	NEWTON	43	1,520	2,301	2,534	3.03
NORTH ADAMS REGIONAL	NORTH ADAMS	11	354	383	367	.44
NORWOOD	NORWOOD	44	982	918	983	1.17
PROVIDENCE	HOLYOKE	13	1,338	1,056	1,276	1.52
QUINCY CITY	QUINCY	45	935	902	779	.93
SALEM	SALEM	62	1,143	1,333	1,387	1.66
SOUTH SHORE	WEYMOUTH	45	1,937	2,047	1,934	2.31
ST. ELIZABETH'S	BOSTON	41	1,038	1,039	1,117	1.33
ST. JOSEPH'S	LOWELL	31	839	530	313	.37
ST. LUKE'S	NEW BEDFORD	56	2,005	2,028	2,021	2.41
ST. MARGARET'S	BOSTON	41	3,162	3,236	3,564	4.26
ST. VINCENT'S	WORCESTER	22	1,777	1,815	1,790	2.14
STURDY MEMORIAL	ATTLEBORO	51	977	1,022	988	1.18
TOBEY	WAREHAM	57	308	239	284	.34
WALTHAM	WALTHAM	43	847	807	784	.94
WINCHESTER	WINCHESTER	42	1,640	1,492	1,411	1.69

TABLE B-8 (continued)
BIRTHS BY HOSPITAL OF OCCURRENCE
1980-1986

HOSPITAL	CITY/TOWN	HSA SUB- AREA	1980	1985	1986	%
WORCESTER HAHNEMANN	WORCESTER	22	1,258	1,311	1,075	1.28
WORCESTER MEMORIAL	WORCESTER	22	2,220	2,894	3,145	3.76
ALL OTHER HOSPITALS			20	22	21	.02
AT HOME, EN ROUTE, OTHER			442	733	642	.77
TOTAL			74,251	83,307	83,722	100.0
HEALTH SERVICE AREA	HEALTH SERVICE AREA-- HOSPITAL BIRTHS					
I WESTERN MASS			10,680	10,984	10,766	13.10
II CENTRAL MASS			8,289	9,347	10,697	13.02
III MERRIMACK			6,556	6,841	8,379	10.20
IV METRO-GREATER BOSTON			28,816	34,518	28,272	34.41
V SOUTH SHORE			11,703	12,166	15,437	18.79
VI NORTH SHORE			7,765	8,696	8,612	10.48
TOTAL			73,809	82,552	82,163	100.0



MORTALITY



SECTION C

MORTALITY

Resident deaths increased slightly in Massachusetts from 55,590 in 1985 to 55,860 in 1986, an increase of 0.5%. However, the rate of deaths per 1,000 population held constant at 9.6 in 1986. As with live births, all deaths to Massachusetts residents include all deaths to Massachusetts residents regardless of the state in which they occurred. Most data presented in this section are resident data. Occurrence data are used only with medical examiner data.

DEATHS BY RACE

The number of deaths by race remained relatively constant with 96.5% of total deaths to white residents of Massachusetts.

Race data provided through death certificates vary considerably from that provided on birth certificates. On birth certificates, race is provided as part of the confidential, statistical portion of the record. As such, there is a significant problem with non-respondents. On the death certificate, however, race information (as is all information on the death certificate) is part of the legal record and must be provided by the funeral director in order to register the death. In 1985, there were only 15 death records with a non-response in the race item. An unknown or non-response in the race item might be the result of a case in which a body is badly decomposed, rather than a refusal to provide the information.

As with birth certificate data, there is a problem identifying those deaths to individuals of Hispanic ethnicity. The question as asked on the 1986 death certificate was limited to a race question and, in many cases, individuals with an Hispanic ethnicity were identified using a race designation, e.g., white or black, rather than a response of Hispanic. If the response was Hispanic, however, these deaths are included in the larger category of "white". Race information on the death certificate is provided by the informant, which in most cases is a close relative. Beginning on January 1, 1989, there will be an additional item relating to Hispanic origin.

DEATHS BY AGE

Overall, 53.5% of deaths were to persons 75 years of age or older. The percentages of deaths to residents in this age group vary widely by race and sex as presented below.

SEX	RACE	% OF DEATHS UNDER AGE 75	% OF DEATHS 75 YEARS AND OLDER	TOTAL
MALE	WHITE	56.7	43.3	100.0
	NONWHITE	79.0	21.0	100.0
	TOTAL	57.6	42.4	100.0
FEMALE	WHITE	35.2	64.8	100.0
	NONWHITE	59.5	40.5	100.0
	TOTAL	36.0	64.0	100.0
TOTAL	WHITE	45.6	54.4	100.0
	NONWHITE	70.3	29.7	100.0
	TOTAL	46.5	53.5	100.0

DEATHS BY PLACE OF OCCURRENCE

In 1986, there was little variation in where deaths occurred, as shown in the data presented below:

SITE	% OF DEATHS 1985	% OF DEATHS 1986
HOSPITAL	62.6	62.3
AT HOME	14.4	14.7
NURSING OR REST HOME	15.0	15.4
EN ROUTE TO HOSPITAL OR DEAD ON ARRIVAL	7.0	6.6
OTHER AND UNKNOWN	1.0	1.0
TOTAL	100.0	100.0

DEATHS BY CAUSE

There continues to be differences in the rank order of the ten leading causes of death between Massachusetts and the United States. The first three causes (heart disease, cancer, and cerebrovascular disease) are the same for both U.S. and the state. The differences, however, are minimal and the last seven causes constitute less than 20% of the deaths (See Table C-2).

Cause of death statistics in this report are based on the Ninth Revision of the International Classification of Diseases (ICD-9). The methodology of coding cause of death from death certificates is consistent nationally, using the Automated Classification of Medical Entities (ACME), developed by the National Center for Health Statistics (NCHS). The ACME system requires every disease or condition mentioned on the record to be coded. The underlying cause is then selected by a computer program which incorporates the ICD-9 rules and conventions. Cause of death information in this report is based on underlying cause, except where otherwise noted.

Three tables (Tables C-8A, C-8B and C-9) present data based on multiple conditions rather than underlying cause data. These tables are

presented to illustrate the use of multiple cause data by extending the utility of mortality data. This is particularly true when utilizing mortality data as a method of surveillance. For example, in 1986 there were 13,084 deaths resulting from cancer as an underlying cause of death. However, an additional 2,325 deaths not with cancer as an underlying cause did include cancer as a mentioned condition, increasing the surveillance data base. Table C-9 demonstrates the ability of multiple cause data to intensify the ability of mortality data to function as a morbidity tool in cases of diseases that are not traditional underlying causes of death. In the case of diabetes, 979 deaths had this condition listed as an underlying cause, but an additional 3,481 had diabetes listed as a mentioned condition, thus increasing the ability to locate diabetes in the population.

Comparison of the leading causes of death differ dramatically by race (Figure C-4). Among white and non-white Massachusetts residents, heart disease, cancer, and cerebrovascular disease rank as the first three leading causes. Perinatal mortality and preventable injuries (commonly called accidents) rank 5 and 6 among the leading causes for non-white residents and are not among the leading causes for white Massachusetts residents. The table below presents the five leading individual causes and the category of "all other causes":

CAUSE	WHITE	RANK	NONWHITE	RANK
HEART DISEASE	20,192 37.5%	1	560 28.8%	1
MALIGNANT NEOPLASMS	12,684 23.5%	2	396 20.4%	2
CEREBRO. DISEASE	3,678 6.8%	3	91 4.7%	3
PNEUMONIA & INFLUENZA	2,427 4.5%	4	NOT LEADING CAUSE	
COPD*	1,898 3.5%	5	NOT LEADING CAUSE	
PERINATAL MORTALITY	NOT LEADING CAUSE		87 4.5%	4
UNINTENTIONAL INJURIES	NOT LEADING CAUSE		83 4.3%	5
ALL OTHER CAUSES**	13,024 24.2%	-	725 37.3%	-

*Chronic Obstructive Pulmonary Diseases

**All Other Causes includes Diabetes Mellitus, Chronic Liver Disease and Cirrhosis, Atherosclerosis, Suicide, and all other causes not specifically mentioned above.

DEATHS CERTIFIED BY MEDICAL EXAMINERS

The total number of deaths certified by medical examiners decreased from 12,606 in 1985 to 10,945 in 1986. Of the deaths certified by medical examiners, 76.6% were reported as a result of nonviolent causes. The percentage of nonviolent deaths certified by medical examiners varies widely by county, from a high of 85.3% in Dukes County to a low of 60.0% in Suffolk County. Suffolk County had the greatest number of deaths (1,693) that were referred to medical examiners but with the certification retained by the attending physician.

1990 HEALTH OBJECTIVES

Presented below is an assessment of Massachusetts in 1986 against the 1990 health objectives that may be measured with mortality data.

1990 OBJECTIVE:

Maternal Mortality:

Maternal mortality rate should not exceed 5 per 100,000 live births for any county or ethnic group.

Drowning:

Deaths from drowning should be reduced to no more than 1.5 per 100,000 persons.

Falls:

Deaths due to falls should be no more than 2 per 100,000 persons.

Motor Vehicle Deaths:

Motor vehicle death rate for children under the age of 15 should be no more than 5.5 per 100,000 children.

Overall motor vehicle death rate should not exceed 18 per 100,000 population.

MASSACHUSETTS—1986:

Although mortality data included no maternal deaths in 1986, this is misleading. Additional study linking death certificate data with birth certificate data is necessary to determine the actual maternal mortality rate. This is an activity that we will be pursuing in the future with the expanded data base provided by the new birth certificate.

There were 64 deaths from drowning in 1986, resulting in a rate of 1.1 per 100,000 population, below the 1990 objective.

In 1986, there were 381 deaths for a rate of 6.5 per 100,000 population. It does not appear likely that the objective will be met.

The 1986 rate was 4.42 with 52 deaths.

The rate in 1986 was 14.0, already below the 1990 objective.

Fatalities from alcohol-related motor vehicle accidents should be less than 9.5 per 100,000 population.

In data supplied by the Registry of Motor Vehicles, the number of alcohol-related deaths was given as 208 or 3.6 per 100,000 population.

Fires:

No more than 4,500 residential fire deaths nationwide.

No more than 60 residential fire deaths per year in Massachusetts.

MASSACHUSETTS—1986:

There were 60 residential fire deaths in 1986.

Drugs:

Drug related mortalities should not exceed 2 per 100,000 population yearly.

The 1986 death rate was 1.08 with 63 deaths. However, recent studies have shown that chemical substances such as drugs and alcohol are under-reported as a cause of mortality. This rate may be impacted by this under-reporting.

Cirrhosis:

The death rate from cirrhosis should not exceed 12 per 100,000.

The 1986 rate was 12.9 per 100,000 population.

DEFINITIONS AND RATES IMPORTANT FOR THIS SECTION INCLUDE:

CAUSE OF DEATH The underlying condition which gives rise to a series of events leading to death. The code used for identifying cause of death is the 9th Edition of the International Classification of Disease. The underlying cause of death is generated by a computer software program developed by the National Center for Health Statistics from coding all causes on death certificates.

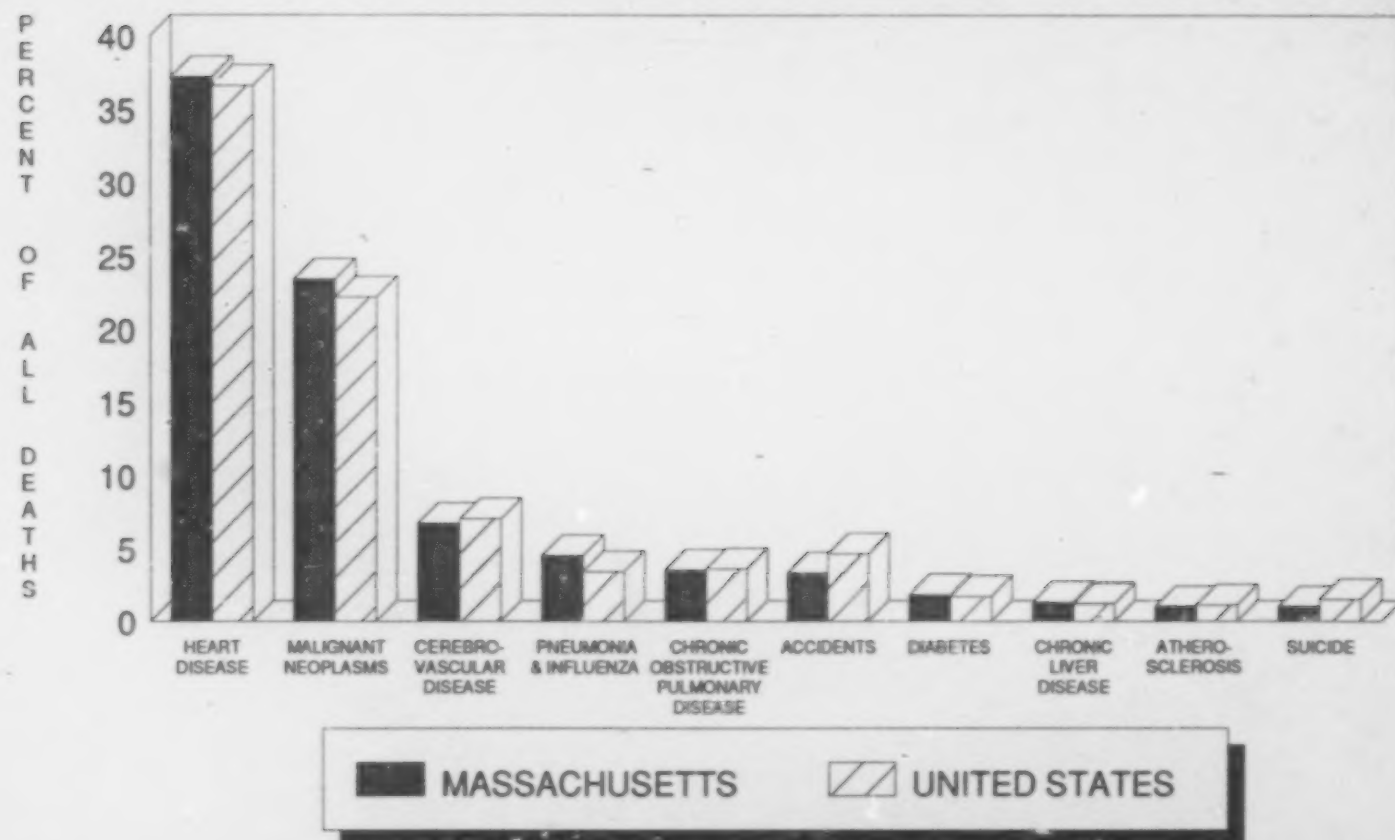
AGE-SPECIFIC DEATH RATE $\frac{\text{No. of Resident Deaths in Specific Age Group}}{\text{Total Population of Specific Age Group}} \times 100,000$

CAUSE-SPECIFIC DEATH RATE $\frac{\text{No. of Resident Deaths for a Specific Cause}}{\text{Total Population}} \times 100,000$

TABLE C-1
RESIDENT DEATHS BY AGE, SEX AND RACE
1986

AGE	- ALL RACES -			- WHITE -			- NON-WHITE -			- OTHER & UNKNOWN -		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
TOTAL	55,860	27,115	28,745	53,903	26,030	27,873	1,942	1,076	866	15	9	6
<5	826	443	383	674	365	309	151	77	74	1	1	0
5-9	65	41	24	61	38	23	4	3	1	0	0	0
10-14	59	37	22	48	30	18	11	7	4	0	0	0
15-19	316	236	80	297	220	77	19	16	3	0	0	0
20-24	416	314	102	370	283	87	46	31	15	0	0	0
25-29	485	353	132	417	307	110	67	46	21	1	0	1
30-34	558	403	155	497	360	137	60	42	18	1	1	0
35-39	664	436	228	575	366	209	88	69	19	1	1	0
40-44	777	487	290	711	447	264	64	39	25	2	1	1
45-49	986	594	392	916	553	363	70	41	29	0	0	0
50-54	1,519	978	541	1,419	915	504	100	63	37	0	0	0
55-59	2,576	1,639	937	2,431	1,552	879	144	86	58	1	1	0
60-64	4,069	2,475	1,594	3,877	2,344	1,533	191	130	61	1	1	0
65-69	5,551	3,217	2,334	5,375	3,112	2,263	174	104	70	2	1	1
70-74	7,087	3,960	3,127	6,911	3,865	3,046	175	95	80	1	0	1
75-79	8,005	3,970	4,035	7,810	3,884	3,926	192	84	108	3	2	1
80-84	7,979	3,436	4,543	7,831	3,375	4,456	148	61	87	0	0	0
85-89	7,058	2,320	4,738	6,936	2,270	4,666	122	50	72	0	0	0
90-94	4,731	1,304	3,427	4,665	1,284	3,381	65	20	45	1	0	1
95-99	1,792	412	1,380	1,753	403	1,350	39	9	30	0	0	0
>99	337	57	280	326	55	271	11	2	9	0	0	0
UNKNOWN	4	3	1	3	2	1	1	1	0	0	0	0

FIGURE C - 1
 TEN LEADING CAUSES OF DEATH
 MASSACHUSETTS AND UNITED STATES
 1986



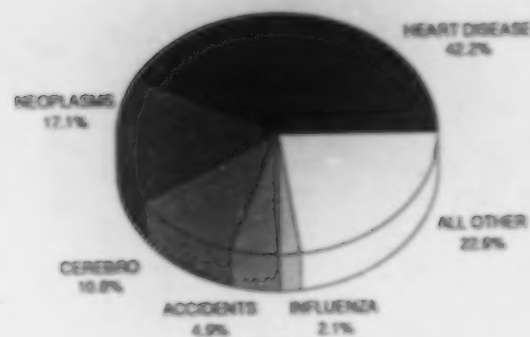
NOTE: U.S.A. DATA - PROVISIONAL

FIGURE C-2
PROPORTION OF 5 SELECTED CAUSES OF DEATH
MASSACHUSETTS RESIDENTS
1940-1986

1940



1950



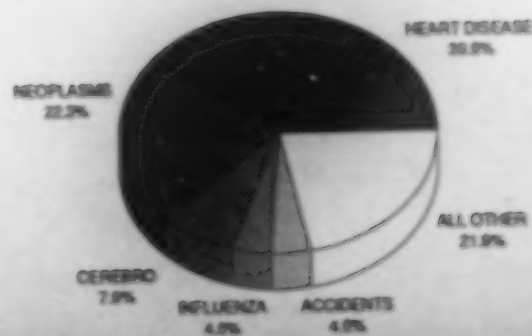
1960



1970



1980



1986



TABLE C-2
LEADING CAUSES OF DEATH, MASSACHUSETTS AND UNITED STATES
1985-1986

CAUSE OF DEATH	- 1986 -					- 1985 -				
	MASS. NUMBER	%	RANK	U.S.%	RANK	MASS. NUMBER	%	RANK	U.S.%	RANK
TOTAL	55,860	100.0	---	100.0	---	55,590	100.0	---	100.0	---
DISEASES OF THE HEART (390-398, 402, 404-429)	20,758	37.2	1	36.6	1	21,048	37.9	1	37.0*	1
MALIGNANT NEOPLASMS (140-208)	13,084	23.4	2	22.2	2	13,054	23.5	2	22.1*	2
CEREBROVASCULAR DISEASE (430-438)	3,769	6.7	3	7.0	3	3,784	6.8	3	7.3	3
PNEUMONIA & INFLUENZA (480-487)	2,494	4.5	4	3.4	6	2,232	4.0	4	3.2	6
CHRONIC OBSTRUCTIVE PULMONARY DISEASES (490-496)	1,929	3.5	5	3.6	5	1,862	3.3	6	3.6	5
ACCIDENTS (800-949)	1,857	3.3	6	4.6	4	1,877	3.4	5	4.5*	4
DIABETES MELLITUS (250)	979	1.8	7	1.7	7	932	1.7	7	1.8*	7
CHRONIC LIVER DISEASE & CIRRHOSIS (571)	752	1.3	8	1.2	9	758	1.4	8	1.3	9
ATHEROSCLEROSIS (440)	580	1.0	9	1.1	10	599	1.1	9	1.1	10
SUICIDE (950-959)	543	1.0	10	1.5	8	547	0.9	10	1.4	8
ALL OTHER CAUSES	9,115	16.3	---	17.1	---	8,897	16.0	---	16.7*	---

1986 U.S. FIGURES ARE PROVISIONAL.

*REVISED

TABLE C-3
LEADING CAUSES OF DEATH BY HEALTH SERVICE AREAS
1985

CAUSE OF DEATH	STATE	HSA I	HSA II	HSA III	HSA IV	HSA V	HSA VI
	NUMBER/ RANK/ RATE	NUMBER/ RANK/ RATE	NUMBER/ RANK/ RATE	NUMBER/ RANK/ RATE	NUMBER/ RANK/ RATE	NUMBER/ RANK/ RATE	NUMBER/ RANK/ RATE
TOTAL	55,860 9.6	8,137 10.1	6,555 9.4	4,615 9.1	19,802 9.4	10,425 9.6	6,326 10.1
DISEASES OF THE HEART (390-398,402,404-429)	20,758 1 3.6	3,109 1 3.8	2,467 1 3.5	1,791 1 3.5	7,116 1 3.4	3,823 1 3.5	2,456 1 3.9
MALIGNANT NEOPLASMS (140-208)	15,084 2 2.2	1,828 2 2.3	1,513 2 2.2	1,026 2 2.0	4,674 2 2.2	2,483 2 2.3	1,560 2 2.5
CEREBROVASCULAR DISEASE (430-438)	3,769 3 .6	559 3 .7	385 3 .6	304 3 .6	1,202 3 .6	895 3 .8	424 3 .7
PNEUMONIA & INFLUENZA (480-487)	2,494 4 .4	349 4 .4	290 4 .4	169 5 .3	976 4 .5	433 4 .4	277 4 .4
CHRONIC OBSTRUCTIVE PULMONARY DISEASES (490-496)	1,929 5 .3	323 5 .4	214 6 .3	189 4 .4	624 6 .3	324 6 .3	255 5 .4
ACCIDENTS) (800-949)	1,857 6 .3	274 6 .3	262 5 .4	146 6 .3	657 5 .3	358 5 .3	160 6 .2
DIABETES MELLITIS (250)	979 7 .2	120 8 .1	124 7 .2	117 7 .2	348 7 .2	184 7 .2	86 7 .1
CHRONIC LIVER DISEASE & CIRRHOSIS (571)	752 8 .1	89 9 .1	68 8 .1	66 8 .1	305 8 .1	142 9 .1	82 8 .1
ATHEROSCLEROSIS (440)	580 9 .1	129 7 .2	64 9 .1	54 9 .1	121 10 .1	158 8 .1	54 9 .1
SUICIDE (950-959)	543 10 .1	83 10 .1	63 10 .1	52 10 .1	209 9 .1	86 10 .1	50 10 .1
ALL OTHER CAUSES	9,115 1.6	1,278 1.6	1,105 1.6	701 1.4	3,570 1.7	1,539 1.4	922 1.5

NOTE: THE 1986 ESTIMATED POPULATION DATA ARE PROVIDED BY THE MASSACHUSETTS INSTITUTE FOR SOCIAL AND ECONOMIC RESEARCH (MISER).

TABLE C-4
LEADING CAUSES OF DEATH BY AGE GROUP AND SEX
1986

AGE GROUP	TOTAL	MALE	FEMALE
<u>UNDER 1 YEAR</u>			
TOTAL	695 1.2%	375 1.4%	320 1.1%
CERTAIN CAUSES OF PERINATAL MORTALITY (760-779)	351	189	162
CONGENITAL ANOMALIES (740-759)	164	82	81
SUDDEN INFANT DEATH SYNDROME (7980)	82	44	38
ALL OTHER CAUSES	98	60	39
<u>1-4 YEARS</u>			
TOTAL	131 .2%	68 .3%	63 .2%
CONGENITAL ANOMALIES (740-759)	22	14	8
OTHER ACCIDENTS (800-807, 826-949)	20	7	13
MALIGNANT NEOPLASMS (140-208)	9	5	4
MOTOR VEHICLE ACCIDENTS (810-825)	9	6	3
DISEASES OF RESPIRATORY SYSTEM (460-519)	7	5	2
ALL OTHER CAUSES	64	31	33
<u>5-9 YEARS</u>			
TOTAL	65 .1%	41 .2%	24 .1%
MOTOR VEHICLE ACCIDENTS (810-825)	23	18	5
MALIGNANT NEOPLASMS (140-208)	14	9	5
OTHER ACCIDENTS (800-807, 826-949)	9	5	4
CONGENITAL ANOMALIES (740-759)	7	4	3
ALL OTHER CAUSES	12	5	7
<u>10-14 YEARS</u>			
TOTAL	59 .1%	37 .1%	22 .1%
MOTOR VEHICLE ACCIDENTS (810-825)	20	9	11
OTHER ACCIDENTS (800-807, 826-949)	9	6	3
MALIGNANT NEOPLASMS (140-208)	7	4	3
ALL OTHER CAUSES	23	18	5

TABLE C-4 (continued)
LEADING CAUSES OF DEATH BY AGE GROUP AND SEX
1986

AGE GROUP	TOTAL	MALE	FEMALE
<u>15-19 YEARS</u>			
TOTAL	316 .6%	236 .9%	80 .3%
MOTOR VEHICLE ACCIDENTS (810-823)	141	104	37
OTHER ACCIDENTS (800-807, 826-949)	43	35	8
SUICIDE (950-959)	28	22	6
HOMICIDE (960-969)	27	20	7
MALIGNANT NEOPLASMS (140-208)	18	13	5
ALL OTHER CAUSES	59	42	17
<u>20-29 YEARS</u>			
TOTAL	901 1.6%	667 2.5%	234 .8%
MOTOR VEHICLE ACCIDENTS (810-823)	237	196	41
SUICIDE (950-959)	140	117	23
OTHER ACCIDENTS (800-807, 826-949)	98	78	20
MALIGNANT NEOPLASMS (140-208)	73	40	33
HOMICIDE (960-969)	73	53	20
ALL OTHER CAUSES	280	183	97
<u>30-39 YEARS</u>			
TOTAL	1,222 2.2%	839 3.1%	383 1.3%
MALIGNANT NEOPLASMS (140-208)	226	107	119
SUICIDE (950-959)	122	87	35
MOTOR VEHICLE ACCIDENTS (810-823)	104	84	20
OTHER ACCIDENTS (800-807, 826-949)	94	75	19
ISCHEMIC HEART DISEASE (410-414)	76	65	11
HOMICIDE (960-969)	61	45	16
CHRONIC LIVER DISEASE AND CIRRHOSIS (571)	49	32	17
ALL OTHER CAUSES	490	344	146
<u>40-49 YEARS</u>			
TOTAL	1,763 3.2%	1,081 4.0%	682 2.4%
MALIGNANT NEOPLASMS (140-208)	554	209	345
ISCHEMIC HEART DISEASE (410-414)	331	287	44
CHRONIC LIVER DISEASE AND CIRRHOSIS (571)	109	70	39
DISEASES OF THE RESPIRATORY SYSTEM (460-519)	79	51	28
SUICIDE (950-959)	71	52	19
ALL OTHER CAUSES	619	412	207

TABLE C-4 (continued)
LEADING CAUSES OF DEATH BY AGE GROUP AND SEX
1986

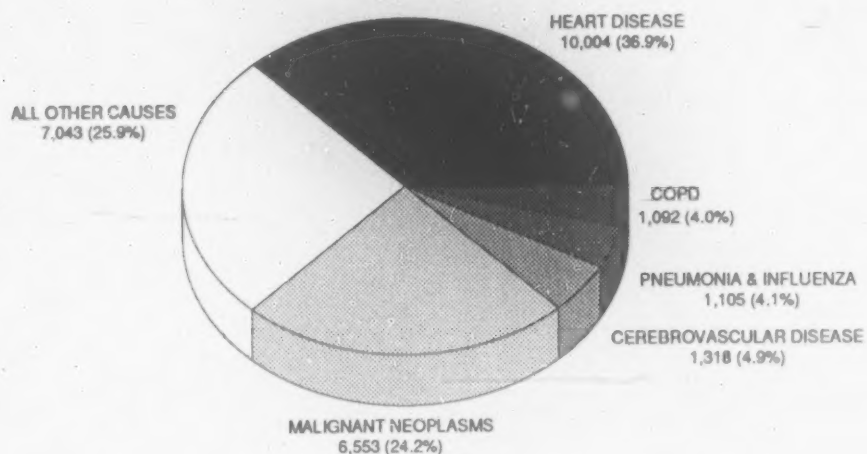
AGE GROUP	TOTAL	MALE	FEMALE
<u>50-59 YEARS</u>			
TOTAL	4,095 7.3%	2,617 9.6%	1,478 5.1%
MALIGNANT NEOPLASMS (140-208)	1,552	839	713
ISCHEMIC HEART DISEASE (410-414)	1,001	776	225
DISEASES OF THE RESPIRATORY SYSTEM (460-519)	207	131	76
CHRONIC LIVER DISEASE AND CIRRHOSIS (571)	154	105	49
CEREBROVASCULAR DISEASE (430-438)	130	67	63
ALL OTHER CAUSES	1,051	699	352
<u>60-69 YEARS</u>			
TOTAL	9,620 17.2%	5,692 21.0%	3,928 13.7%
MALIGNANT NEOPLASMS (140-208)	3,388	1,841	1,547
ISCHEMIC HEART DISEASE (410-414)	2,577	1,777	800
DISEASES OF THE RESPIRATORY SYSTEM (460-519)	627	340	287
CEREBROVASCULAR DISEASE (430-438)	396	199	197
CHRONIC LIVER DISEASE AND CIRRHOSIS (571)	215	127	88
ALL OTHER CAUSES	2,417	1,408	1,009
<u>70-79 YEARS</u>			
TOTAL	15,092 27.0%	7,930 29.2%	7,162 24.9%
ISCHEMIC HEART DISEASE (410-414)	4,255	2,317	1,938
MALIGNANT NEOPLASMS (140-208)	4,109	2,107	2,002
DISEASES OF THE RESPIRATORY SYSTEM (460-519)	1,468	860	608
CEREBROVASCULAR DISEASE (430-438)	985	442	543
DIABETES MELLITUS (250)	281	126	155
OTHER ACCIDENTS (800-807, 824-949)	177	102	75
ALL OTHER CAUSES	3,817	1,976	1,841
<u>80-89 YEARS</u>			
TOTAL	15,037 27.0%	5,756 21.2%	9,281 32.3%
ISCHEMIC HEART DISEASE (410-414)	4,509	1,628	2,881
MALIGNANT NEOPLASMS (140-208)	2,517	1,169	1,348
DISEASES OF THE RESPIRATORY SYSTEM (460-519)	1,736	836	900
CEREBROVASCULAR DISEASE (430-438)	1,449	408	1,041
DIABETES MELLITUS (250)	272	98	174
OTHER ACCIDENTS (800-807, 824-949)	231	106	125
ALL OTHER CAUSES	4,323	1,511	2,812

TABLE C-4 (continued)
LEADING CAUSES OF DEATH BY AGE GROUP AND SEX
1985

AGE GROUP	TOTAL	MALE	FEMALE
<u>90-99 YEARS</u>			
TOTAL	6,523 11.7%	1,716 6.3%	4,807 16.7%
ISCHEMIC HEART DISEASE (410-414)	2,108	499	1,609
DISEASES OF THE RESPIRATORY SYSTEM (460-519)	877	298	579
CEREBROVASCULAR DISEASE (430-438)	676	145	531
MALIGNANT NEOPLASMS (140-208)	599	204	395
ATHEROSCLEROSIS (440)	194	38	156
ALL OTHER CAUSES	2,069	532	1,537
<u>100 YEARS & OLDER</u>			
TOTAL	337 .6%	57 .2%	280 1.0%
ISCHEMIC HEART DISEASE (410-414)	117	19	98
DISEASES OF THE RESPIRATORY SYSTEM (460-519)	49	6	43
CEREBROVASCULAR DISEASE (430-438)	31	4	27
ATHEROSCLEROSIS (440)	17	2	15
MALIGNANT NEOPLASMS (140-208)	15	5	10
ALL OTHER CAUSES	108	21	87
<u>TOTAL MASSACHUSETTS DEATHS</u>	55,860*	27,115	28,745
*INCLUDES ONE INFANT DEATH OF UNKNOWN SEX AND FOUR DEATHS OF UNKNOWN AGE.			

FIGURE C - 3
5 LEADING CAUSES OF DEATH BY SEX
1986

MALE



FEMALE

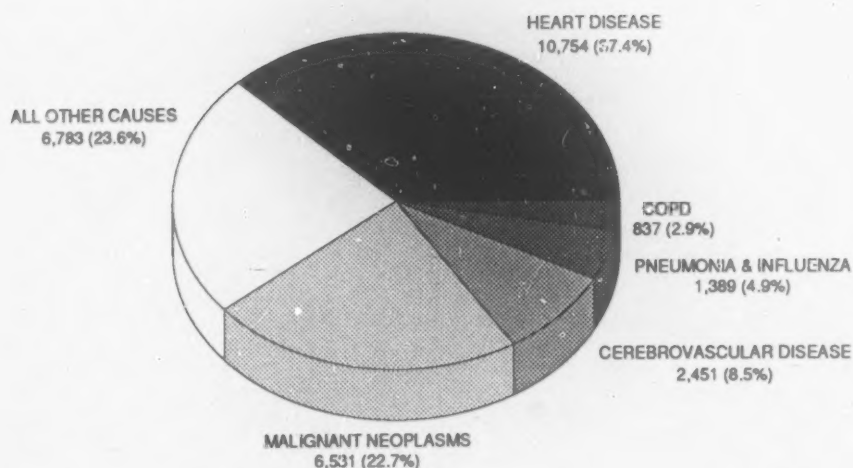
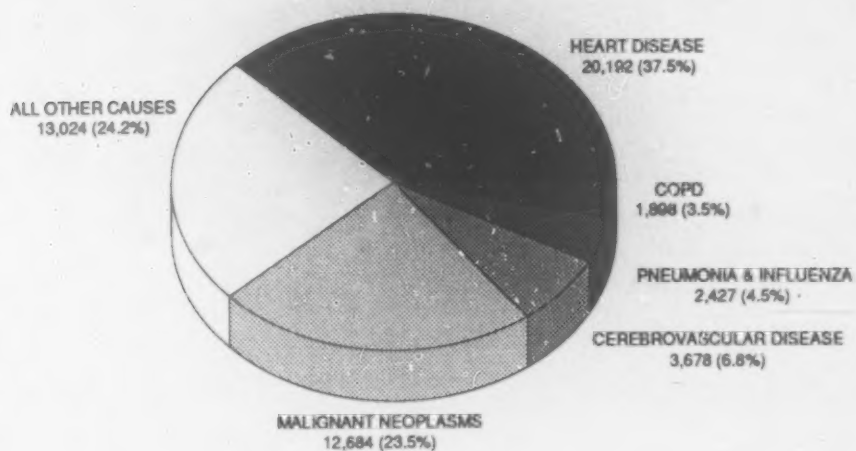
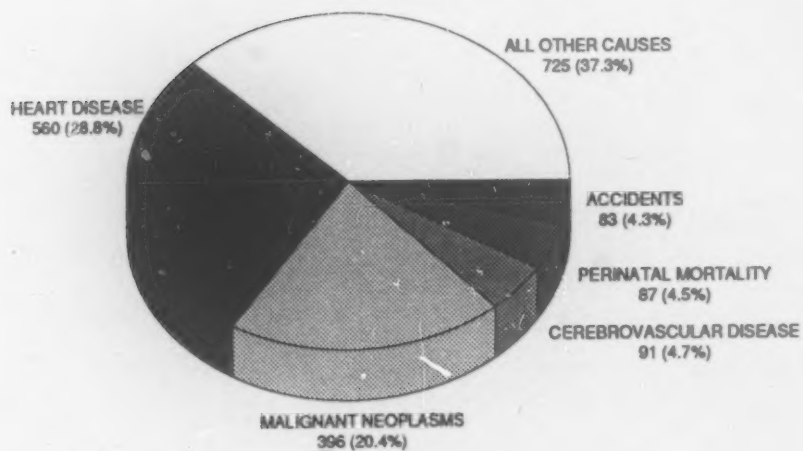


FIGURE C - 4
FIVE LEADING CAUSES OF DEATH BY RACE*
1986

WHITE



NON-WHITE



*GRAPHS DO NOT REFLECT 15 DEATHS OF UNKNOWN RACE

TABLE C-5
MAJOR CAUSES OF MASSACHUSETTS RESIDENT DEATHS BY RACE AND SEX
1986

MAJOR CAUSE OF DEATH (ICD CODE)		- TOTALS -			- WHITE -			- NON-WHITE -		
		TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
TOTALS	N §	55,860	27,115	28,745	53,903	26,029	27,874	1,942	1,076	866
		100	100	100	100	100	100	100	100	100
I. INFECTIVE AND PARASITIC DISEASES (001-139)		894	449	445	832	412	420	62	37	25
		1.6	1.6	1.5	1.5	1.6	1.5	3.2	3.4	2.9
II. NEOPLASMS (140-239)		13,326	6,663	6,663	12,917	6,438	6,479	409	222	183
		23.9	24.6	23.2	24.0	24.7	23.2	20.9	20.6	21.1
III. ENDOCRINE, NUTRITIONAL AND METABOLIC DISORDERS (240-279)		1,422	637	785	1,332	589	743	90	46	42
		2.5	2.3	2.7	2.4	2.3	2.7	4.6	4.5	4.9
IV. DIS. OF THE BLOOD AND BLOOD-FORMING ORGANS (280-289)		204	95	109	193	92	101	11	3	8
		.4	.3	.4	.4	.4	.4	.6	.3	.9
V. MENTAL DISORDERS (290-319)		461	208	253	441	195	246	20	13	7
		.8	.8	.9	.8	.7	.9	1.0	1.2	.8
VI. DIS. OF THE NERVOUS SYSTEM AND SENSE ORGANS (320-389)		1,070	477	593	1,047	467	580	23	10	13
		1.9	1.8	2.1	1.9	1.8	2.1	1.2	.9	1.5
VII. DIS. OF THE CIRCULATORY SYSTEM (390-459)		26,145	12,031	14,114	25,446	11,674	13,772	693	355	338
		46.8	44.4	49.1	47.2	44.8	49.4	35.7	33.0	39.0
VIII. DIS. OF THE RESPIRATORY SYSTEM (460-519)		5,133	2,579	2,554	5,000	2,506	2,494	133	73	60
		9.2	9.5	8.9	9.3	9.6	9.0	6.8	6.8	6.9
IX. DIS. OF THE DIGESTIVE SYSTEM (520-579)		2,189	1,066	1,123	2,096	1,009	1,087	93	57	36
		3.9	3.9	3.9	3.9	3.9	3.9	4.8	5.3	4.2
X. DIS. OF THE GENITOURINARY SYSTEM (580-629)		1,052	454	598	1004	430	574	48	24	24
		1.9	1.7	2.1	1.9	1.6	2.1	2.5	2.2	2.8
XI. COMPLICATIONS OF PREGNANCY, CHILD-BIRTH, AND PUERPERIUM (630-676)		0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0
XII. DIS. OF THE SKIN AND SUBCUTANEOUS TISSUE (680-709)		116	44	72	111	42	69	5	.2	3
		.2	.2	.2	.2	.2	.2	.2	.2	.3
XIII. DIS. OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE (710-739)		120	32	88	111	29	82	9	3	6
		.2	.1	.3	.2	.1	.3	.5	.3	.7
XIV. CONGENITAL ANOMALIES (740-759)		253	127	126	231	113	118	22	14	.8
		.5	.5	.4	.4	.4	.4	1.1	1.3	.9
XV. CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD (760-779)		357	191	166	269	147	122	87	43	44
		.6	.7	.6	.5	.6	.4	4.5	4.0	5.1
XVI. SYMPTOMS, SIGNS AND ILL-DEFINED CONDITIONS (780-799)		329	168	161	297	150	147	31	17	14
		.6	.6	.6	.6	.6	.5	1.6	1.6	1.6
XVII. EXTERNAL CAUSES OF INJURY AND POISONING (800-999)		2,789	1,893	896	2,576	1,736	840	210	155	55
		5.0	7.0	3.1	4.8	6.7	3.0	10.8	14.4	6.4

NOTE: TOTALS REFLECT 9 MALES AND 6 FEMALES OF UNKNOWN RACE.
ONE DEATH OF UNKNOWN SEX IS INCLUDED IN MALE TOTALS.

FIGURE C-5
 PROPORTION BY AGE GROUP WITHIN RACE
 MASSACHUSETTS RESIDENT DEATHS
 1986

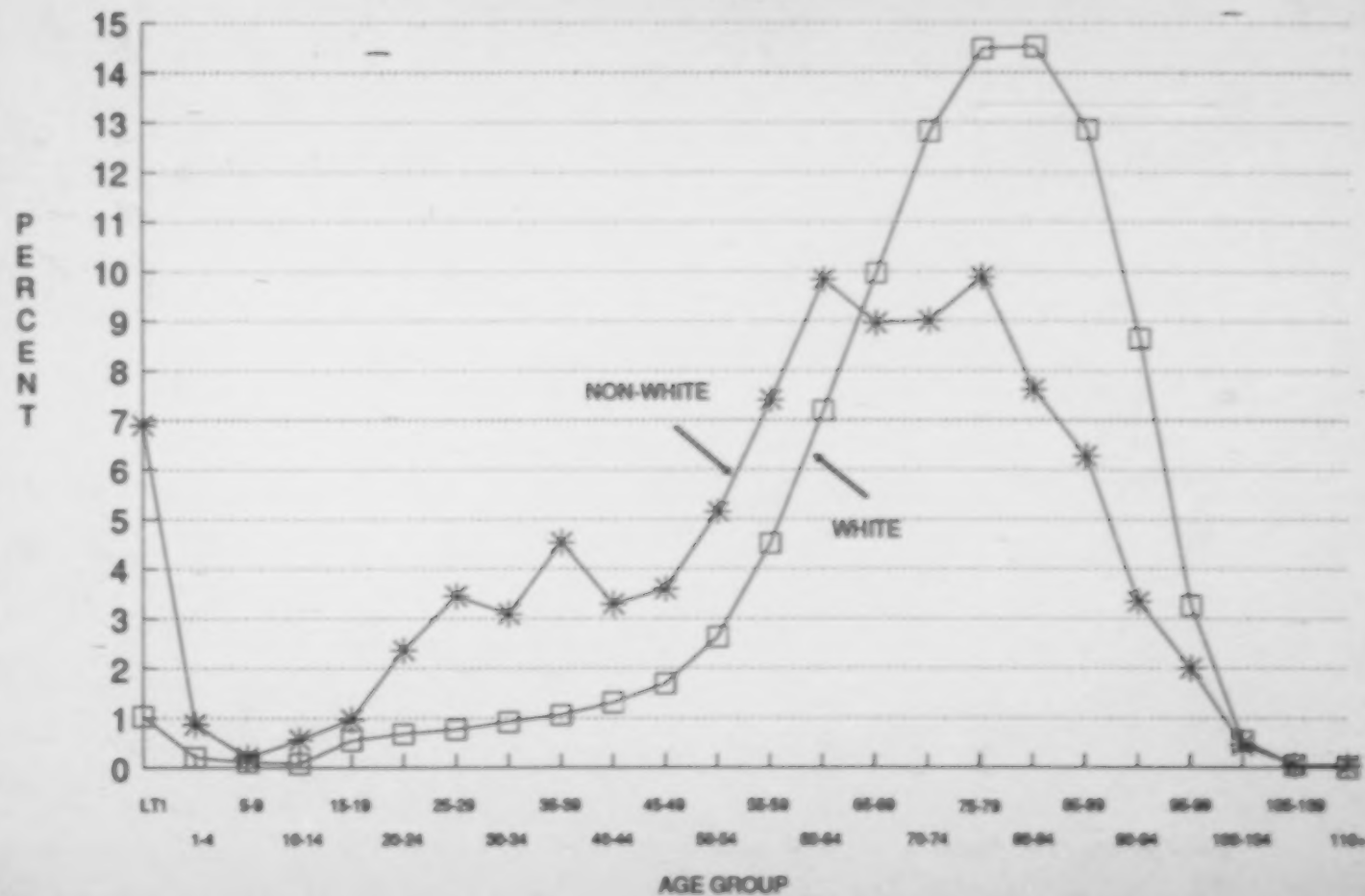


TABLE C-4A
SELECTED CAUSES OF DEATH BY AGE AND SEX
MASSACHUSETTS RESIDENTS
1986

CAUSE OF DEATH	TOTAL	0-4	5-9	10-14	15-19	20-29	30-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
MALIGNANT NEOPLASMS (140-208)																
MALE	6553	6	9	4	13	40	107	89	120	293	546	819	1022	1137	970	1378
FEMALE	6531	6	5	3	5	33	119	127	218	258	455	670	877	1002	1000	1753
TOTAL	13084	12	14	7	18	73	226	216	338	551	1001	1489	1899	2139	1970	3131
DIABETES MELLITUS (250)																
MALE	417	0	0	1	0	5	14	17	9	22	26	30	53	59	67	114
FEMALE	562	1	0	0	0	1	10	7	8	14	14	42	56	71	84	254
TOTAL	979	1	0	1	0	6	24	24	17	36	40	72	109	130	151	368
HEART DISEASES (390 - 398, 402, 404-429)																
MALE	10004	16	0	0	8	43	113	146	225	376	639	1029	1343	1553	1558	2955
FEMALE	10754	12	1	0	1	15	28	33	47	104	233	440	700	1103	1588	4449
TOTAL	20758	28	1	0	9	58	141	179	272	480	872	1469	2043	2656	3146	9404
CEREBROVASCULAR DISEASE (430-438)																
MALE	1318	3	0	1	0	5	17	11	16	21	46	77	122	197	245	557
FEMALE	2451	1	0	0	2	6	16	9	15	20	43	64	133	204	339	1599
TOTAL	3769	4	0	1	2	11	33	20	31	41	89	141	255	401	584	2156
ATHEROSCLEROSIS (440)																
MALE	198	0	0	0	0	0	0	0	1	2	1	9	16	25	29	115
FEMALE	382	0	0	0	0	0	0	1	0	0	4	5	8	17	26	321
TOTAL	580	0	0	0	0	0	0	1	1	2	5	14	24	42	55	436
INFLUENZA & PNEUMONIA (480-487)																
MALE	1105	8	0	0	1	5	17	9	12	12	34	40	50	122	200	595
FEMALE	1389	3	0	0	1	3	7	7	3	5	15	20	50	86	152	1037
TOTAL	2494	11	0	0	2	8	24	16	15	17	49	60	100	208	352	1632
CHRONIC OBSTRUCTIVE PULMONARY (490-496)																
MALE	1092	0	0	0	0	3	4	6	11	19	49	91	108	193	215	393
FEMALE	837	1	0	0	0	3	2	2	9	20	27	57	117	135	148	316
TOTAL	1929	1	0	0	0	6	6	8	20	39	76	148	225	328	363	709

TABLE C-4A
SELECTED CAUSES OF DEATH BY AGE AND SEX
MASSACHUSETTS RESIDENTS
1966

CAUSE OF DEATH	TOTAL	0-4	5-9	10-14	15-19	20-29	30-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
CHRONIC LIVER DIS. & CIRRHOSIS (571)																
MALE	442	0	0	0	0	4	32	29	41	48	57	56	71	61	24	19
FEMALE	310	2	0	0	0	1	17	19	20	18	31	48	40	40	39	35
TOTAL	752	2	0	0	0	5	49	48	61	66	88	104	111	101	63	54
MOTOR VEHICLE ACCIDENTS (810-825)																
MALE	504	6	18	9	104	196	84	26	14	22	17	18	15	18	13	24
FEMALE	232	3	5	11	37	41	20	11	5	10	15	9	18	12	14	21
TOTAL	816	9	23	20	141	237	104	37	19	32	32	27	33	30	27	45
SUICIDES (950-959)																
HOMICIDES (960-969)																
MALE	544	1	0	5	42	170	132	29	38	24	28	25	18	21	10	21
FEMALE	197	4	0	1	13	43	51	15	9	15	2	14	8	6	8	8
TOTAL	761	5	0	6	55	213	183	44	47	39	30	39	26	27	18	29
ALL OTHER ACCIDENTS (800-807,826-949)																
MALE	620	12	5	6	35	78	75	28	22	22	27	36	32	47	55	140
FEMALE	421	13	4	3	8	20	19	2	5	9	10	17	13	30	45	217
TOTAL	1041	25	9	9	43	98	94	34	27	31	37	53	45	77	100	357
ALL MASSACHUSETTS RESIDENT DEATHS																
MALE	27115	443	41	37	234	647	839	487	594	978	1639	2475	3217	3960	3970	7532
FEMALE	28745	383	24	22	80	234	383	290	392	541	937	1594	2334	3127	4035	14369
TOTAL	55860	826	65	59	314	901	1222	777	986	1519	2576	4069	5551	7087	8005	21901

1 DEATH RECORDS INCLUDED OF UNKNOWN SEX (IN MALE TOTALS)

4 DEATH RECORDS INCLUDED OF UNKNOWN AGE (AS OVER 80)

TABLE C-68
SELECTED CAUSES OF DEATH BY AGE AND SEX
RATES PER 100,000 POPULATION
1986

CAUSE OF DEATH	TOTAL	0-4	5-9	10-14	15-19	20-29	30-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
MALIGNANT NEOPLASMS (140-208)																
MALE	240.0	3.5	4.7	1.7	4.7	7.8	27.5	66.7	93.3	192.7	375.0	648.3	1023.8	1527.3	1265.4	6853.3
FEMALE	217.3	3.7	2.7	1.3	1.8	6.2	29.3	87.3	156.7	156.3	275.1	443.5	646.1	889.7	652.1	3258.3
TOTAL	228.1	3.6	3.7	1.5	3.3	7.0	28.4	77.5	126.2	173.8	321.9	536.8	806.2	1143.4	856.5	4236.3
DIABETES MELLITUS (250)																
MALE	15.3	0.0	0.0	0.4	0.0	1.0	3.6	12.7	7.0	14.5	17.9	23.7	53.1	79.3	87.4	567.0
FEMALE	18.7	0.6	0.0	0.0	0.0	0.2	2.5	4.8	5.8	8.5	8.5	27.8	41.3	63.0	54.8	472.1
TOTAL	17.1	0.3	0.0	0.2	0.0	0.6	3.0	8.6	6.3	11.4	12.9	26.0	46.3	69.5	65.6	497.9
HEART DISEASES (390 - 398, 402, 404-429)																
MALE	366.3	9.2	0.0	0.0	2.9	8.4	29.1	109.5	174.9	247.4	438.9	814.6	1345.4	2086.1	2032.4	14696.4
FEMALE	357.7	7.3	0.5	0.0	0.4	2.8	6.9	22.7	33.8	63.0	140.9	291.3	515.7	979.3	1035.5	11986.8
TOTAL	361.8	8.3	0.3	0.0	1.6	5.6	17.7	64.2	101.6	151.4	280.4	529.6	867.3	1419.8	1367.8	12723.9
CEREBROVASCULAR DISEASE (430-438)																
MALE	48.3	1.7	0.0	0.4	0.0	1.0	4.4	8.2	12.4	13.8	31.6	61.0	122.2	264.6	319.6	2770.2
FEMALE	81.5	0.6	0.0	0.0	0.7	1.1	3.9	6.2	10.8	12.1	26.0	42.4	98.0	181.1	221.1	2972.1
TOTAL	65.7	1.2	0.0	0.2	0.4	1.1	4.2	7.2	11.6	12.9	28.6	50.8	108.3	214.4	253.9	2917.1
ATHEROSCLEROSIS (440)																
MALE	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.3	0.7	7.1	16.0	33.6	37.8	571.9
FEMALE	12.7	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	2.4	3.3	5.9	15.1	17.0	596.6
TOTAL	10.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.6	1.6	5.0	10.2	22.5	23.9	589.9
INFLUENZA & PNEUMONIA (480-487)																
MALE	40.5	4.6	0.0	0.0	0.4	1.0	4.4	6.7	9.3	7.9	23.4	31.7	50.1	163.9	260.9	2959.2
FEMALE	46.2	1.8	0.0	0.0	0.4	0.6	1.7	4.8	2.2	3.0	9.1	13.2	36.8	76.4	99.1	1927.5
TOTAL	43.5	3.3	0.0	0.0	0.4	0.8	3.0	5.7	5.6	5.4	15.8	21.6	42.5	111.2	153.0	2208.2
CHRONIC OBSTRUCTIVE PULMONARY (490-496)																
MALE	40.0	0.0	0.0	0.0	0.0	0.6	1.0	4.5	8.6	12.5	33.7	72.0	108.2	259.3	280.5	1954.5
FEMALE	27.8	0.6	0.0	0.0	0.0	0.6	0.5	1.4	6.5	12.1	16.3	37.7	86.2	119.9	96.5	587.3
TOTAL	33.6	0.3	0.0	0.0	0.0	0.6	0.8	2.9	7.5	12.3	24.4	53.4	95.5	175.3	157.8	959.3

TABLE C-68
SELECTED CAUSES OF DEATH BY AGE AND SEX
RATES PER 100,000 POPULATION
1986

CAUSE OF DEATH	TOTAL	0-4	5-9	10-14	15-19	20-29	30-39	40-44	45-49	50-54	55-59	60-64	65-69	70-74	75-79	80+
CHRONIC LIVER DIS. & CIRRHOSIS (571)																
MALE	16.2	0.0	0.0	0.0	0.0	0.8	8.2	21.7	31.9	31.6	39.1	44.3	71.1	81.9	31.3	94.8
FEMALE	10.3	1.2	0.0	0.0	0.0	0.2	4.2	13.1	14.4	10.9	18.7	31.8	29.8	35.5	25.4	45.1
TOTAL	13.1	0.6	0.0	0.0	0.0	0.5	6.2	17.2	22.8	20.8	28.3	37.5	47.1	54.0	27.4	73.1
MOTOR VEHICLE ACCIDENTS (810-825)																
MALE	21.4	3.8	9.4	3.8	37.8	38.4	21.6	19.5	10.9	14.5	11.7	14.2	15.0	24.2	17.0	119.4
FEMALE	7.7	1.8	2.7	4.9	13.5	7.7	4.9	7.6	3.6	6.1	9.1	6.0	13.3	10.7	9.1	39.0
TOTAL	14.2	2.7	6.1	4.3	25.7	22.7	13.1	13.3	7.1	10.1	10.3	9.7	14.0	16.0	11.7	60.9
SUICIDES (950-959)																
HOMICIDES (960-969)																
MALE	20.7	0.6	0.0	2.1	15.3	33.3	34.0	21.7	29.5	15.8	19.2	19.8	18.0	28.2	13.0	104.4
FEMALE	6.6	2.4	0.0	0.4	4.8	8.1	12.6	10.3	6.5	9.1	1.2	9.3	5.9	5.3	5.2	14.9
TOTAL	13.3	1.5	0.0	1.3	10.0	20.4	23.0	15.8	17.6	12.3	9.6	14.1	11.0	14.4	7.8	39.2
ALL OTHER ACCIDENTS (800-807,826-949)																
MALE	22.7	6.9	2.6	2.5	12.7	15.3	19.3	21.0	17.1	14.5	18.5	28.5	32.1	63.1	71.7	696.3
FEMALE	14.0	7.9	2.2	1.3	2.9	3.8	4.7	5.5	3.6	5.5	6.0	11.3	9.6	26.6	29.3	403.3
TOTAL	18.1	7.4	2.4	2.0	7.8	9.4	11.8	12.9	10.1	9.8	11.9	19.1	19.1	41.2	43.5	483.0
ALL MASSACHUSETTS RESIDENT DEATHS																
MALE	992.9	256.0	21.4	15.7	85.9	130.8	215.8	365.2	441.7	643.4	1125.7	1959.3	3222.7	5319.4	5178.8	37459.6
FEMALE	956.2	233.3	13.1	9.7	29.3	44.0	94.3	199.4	281.8	327.7	566.5	1055.2	1719.5	2776.4	2631.2	26707.7
TOTAL	973.7	244.9	17.3	12.8	57.6	86.5	153.7	278.7	368.3	479.0	828.3	1466.9	2356.6	3788.4	3480.3	29632.8

TABLE C-7
AGE-ADJUSTED MORTALITY RATES -- 10 LEADING CAUSES OF DEATH, MASSACHUSETTS
1980-1986*

	<u>TOTAL</u>	<u>MALE</u>	<u>FEMALE</u>
DISEASES OF THE HEART (390-398,402,404-429)			
1980	205.5	285.6	146.5
1981	197.0	276.1	138.4
1982	196.4	276.8	136.7
1983	193.0	270.0	136.4
1984	192.8	269.4	136.8
1985	186.7	261.6	132.2
1986	180.7	251.5	128.4
MALIGNANT NEOPLASMS (140-208)			
1980	136.6	168.7	116.1
1981	136.6	171.5	114.5
1982	137.5	171.4	116.6
1983	140.0	172.5	120.5
1984	140.6	172.1	121.3
1985	139.3	172.9	118.6
1986	136.9	171.2	115.8
CEREBROVASCULAR DISEASE (430-438)			
1980	36.8	37.8	35.7
1981	34.0	35.8	32.6
1982	31.7	32.8	30.7
1983	30.2	32.3	28.4
1984	30.6	32.0	29.4
1985	29.8	30.4	28.9
1986	29.3	30.4	28.2
ACCIDENTS (800-949)			
1980	30.9	45.9	17.0
1981	29.2	45.3	14.7
1982	25.3	38.7	13.3
1983	26.6	39.5	15.3
1984	26.0	39.8	13.6
1985	26.0	39.3	14.0
1986	25.7	39.1	13.9
PNEUMONIA AND INFLUENZA (480-487)			
1980	18.7	25.2	14.3
1981	16.4	22.8	12.3
1982	13.8	19.9	10.1
1983	14.7	20.1	11.5
1984	14.8	20.2	11.7
1985	16.7	22.3	13.4
1986	18.4	24.5	14.8
CHRONIC OBSTRUCTIVE PULMONARY DISEASES (490-496)			
1980	14.6	25.0	8.6
1981	14.2	22.7	9.2
1982	13.6	21.8	8.7
1983	15.6	25.6	9.7
1984	16.4	26.6	10.3
1985	16.8	25.7	11.7
1986	16.9	25.5	12.1

TABLE C-7 (continued)
AGE-ADJUSTED MORTALITY RATES -- 10 LEADING CAUSES OF DEATH, MASSACHUSETTS
1980-1986*

	<u>TOTAL</u>	<u>MALE</u>	<u>FEMALE</u>
DIABETES MELLITUS (250)			
1980	10.2	11.3	8.8
1981	9.2	10.6	8.2
1982	8.9	9.4	8.6
1983	8.5	9.6	7.7
1984	8.7	10.2	7.6
1985	8.7	9.5	8.0
1986	9.3	10.8	8.1
CHRONIC LIVER DISEASE AND CIRRHOSIS (571)			
1980	11.5	15.4	8.2
1981	10.4	15.2	6.5
1982	10.3	14.6	6.8
1983	9.3	13.7	5.8
1984	11.2	16.6	6.9
1985	10.2	15.2	6.3
1986	10.1	14.0	7.0
ATHEROSCLEROSIS (440)			
1980	5.4	5.1	5.5
1981	4.9	4.8	4.8
1982	4.8	5.2	4.6
1983	4.6	3.9	4.9
1984	4.5	4.2	4.5
1985	4.2	4.2	4.0
1986	4.0	4.2	3.7
SUICIDE (950-959)			
1980	7.9	12.5	3.7
1981	8.4	13.9	3.5
1982	8.8	14.2	3.9
1983	8.5	14.4	3.3
1984	8.6	13.7	4.1
1985	9.0	14.8	3.9
1986	8.6	13.8	4.0
* THE RATES FOR 1980 USED THE 1980 U.S. CENSUS DATA FOR MASSACHUSETTS; 1981-1986 RATES WERE CALCULATED USING AGE-SEX POPULATION ESTIMATES FOR MASSACHUSETTS WHICH WERE OBTAINED FROM THE MASSACHUSETTS INSTITUTE FOR SOCIAL AND ECONOMIC RESEARCH (MISER). THE DIRECT METHOD OF AGE ADJUSTMENT WAS USED IN WHICH THE 1940 UNITED STATES POPULATION WAS THE SOURCE OF THE STANDARD SEX-AGE DISTRIBUTIONS.			

TABLE C-8A
DEATHS BY UNDERLYING CAUSE AND MENTIONED CONDITIONS
1986

UNDERLYING CAUSE	TOTAL DEATHS	MENTIONED CONDITIONS*														RATIO OF MENTIONS TO DEATHS
		1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL 1-13	
TOTAL	55,860	19,426	4,481	48,615	7,068	2,466	5,877	4,361	3,121	1,124	835	2,799	778	48,001	148,952	2.67
1. MALIGNANT NEOPLASMS (140-208)	13,084	17,101	418	3,549	311	64	843	615	447	61	0	265	0	6,988	30,662	2.34
2. DIABETES MELLITUS (250)	979	39	1,000	994	177	68	59	28	34	7	0	31	0	791	3,228	3.30
3. DISEASES OF THE HEART (390-398, 402, 404-429)	20,758	1,128	1,944	35,810	1,500	1,018	825	1,103	794	121	11	545	1	9,790	54,590	2.63
4. CEREBROVASCULAR DISEASE (430-438)	3,769	182	348	1,375	4,201	441	378	117	267	16	3	126	0	2,522	9,976	2.65
5. ATHEROSCLEROSIS (440)	580	28	47	265	0	580	30	17	20	1	0	30	0	365	1,383	2.38
6. PNEUMONIA & INFLUENZA (480-487)	2,494	214	141	1,126	273	50	2,496	157	73	26	0	45	1	2,181	6,763	2.71
7. CHRONIC OBSTRUCTIVE PULMONARY DISEASE (490-496)	1,929	132	69	1,100	70	24	415	1,941	118	11	1	55	0	1,609	5,545	2.87

*THE NUMBERS IN THE MENTIONED CONDITIONS COLUMNS REFER TO THE CAUSES WITH THE SAME NUMBERS IN THE UNDERLYING CAUSE COLUMN, I.E., 1 IN MENTIONED CONDITIONS ARE THE NUMBER OF MENTIONS OF MALIGNANT NEOPLASMS.

TABLE C-8A (continued)
DEATHS BY UNDERLYING CAUSE AND MENTIONED CONDITIONS
1986

UNDERLYING CAUSE	TOTAL DEATHS	MENTIONED CONDITIONS														RATIO OF MENTIONS TO DEATHS
		1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL 1-13	
8. OTHER RESPIRATORY DISEASE (460-466, 470-478, 500-508, 510-519)	710	80	31	360	37	13	35	39	754	6	0	81	1	693	2,130	3.00
9. CHRONIC LIVER DISEASE & CIRRHOSIS (571)	752	21	41	168	9	1	40	24	34	764	1	30	0	1,108	2,241	2.98
10. MOTOR VEHICLE ACCIDENTS (810-825)	816	1	1	45	1	0	1	0	11	1	816	5	0	1,614	2,496	3.06
11. OTHER ACCIDENTS (800-807, 826-849)	1,041	40	31	293	28	13	31	33	46	14	0	1,076	0	2,033	3,638	3.49
12. SUICIDE AND HOMICIDE (950-969)	761	11	2	22	1	1	3	7	6	1	0	3	769	1,157	1,983	2.61
13. ALL OTHER CAUSES	8,187	449	408	3,508	460	193	721	280	517	95	3	907	6	17,170	24,317	2.97

TABLE C-88
DEATHS DUE TO MALIGNANT NEOPLASMS BY UNDERLYING CAUSE AND MENTIONED CONDITIONS
1986

UNDERLYING CAUSE							
MENTIONED CONDITIONS	TOTAL	DIGESTIVE ORGANS & PERITONEUM (150-159)	RESPIRATORY & INTRATHOR- ACIC ORGANS (160-165)	BONE, CON- NECTIVE TIS- SUE, SKIN & BREAST (170- 175)	GENITO- URINARY ORGANS (179-189)	LYMPHATIC & HAEMATO- POIETIC TISSUE (200-208)	ALL OTHER MALIGNANT NEOPLASMS
TOTAL MENTIONED COND.	30,662	8,126	7,774	3,561	4,707	2,718	3,776
MEAN NUMBER OF MENTIONED CONDITION PER RECORD	2.34	2.31	2.32	2.28	2.44	2.43	2.35
DEATHS	13,084	3,517	3,358	1,560	1,925	1,117	1,607
1. MALIGNANT NEO- PLASMS (140-208)	17,101	4,686	4,318	2,232	2,570	1,214	2,081
2. DIABETES MELLI- TUS (250)	418	142	94	42	67	33	40
3. DISEASES OF THE HEART (390-398, 402, 404-429)	3,549	863	910	390	610	327	449
4. CEREBROVASCULAR DISEASE (430-438)	311	83	57	27	54	47	43
5. ATHEROSCLEROSIS (440)	64	22	12	8	12	3	7
6. PNEUMONIA & INFLUENZA (480-487)	843	137	290	78	100	142	96
7. CHRONIC OBSTRU- CTIVE PULMONARY DIS- EASE (490-496)	615	106	321	30	54	30	74
8. OTHER RESPIRA- TORY DISEASE (460- 466, 470-478, 500- 508, 510-519)	447	90	145	48	54	35	75
9. CHRONIC LIVER DISEASE & CIRRHOSIS (571)	61	30	12	2	3	4	10
10. ACCIDENTS (E800-E949)	265	68	60	30	52	26	29
ALL OTHER CAUSES	6,988	1,899	1,555	674	1,131	857	872

TABLE C-9
ATHEROSCLEROSIS, HYPERTENSIVE DISEASE AND DIABETES—
UNDERLYING CAUSE AND MENTIONED CONDITIONS BY AGE GROUP AND SEX
1986

AGE	SEX	# OF DEATHS	ATHEROSCLEROSIS (440)			HYPERTENSIVE DISEASE (401-405)			DIABETES MELLITUS (250)		
			UNDER- LYING CAUSE	MEN- TIONED COND.	TOTAL % OF DEATHS	UNDER- LYING CAUSE	MEN- TIONED COND.	TOTAL % OF DEATHS	UNDER- LYING CAUSE	MEN- TIONED COND.	TOTAL % OF DEATHS
0-39	TOTAL	3,389	0	4	<u>4</u> 0.1	8	16	<u>24</u> 0.7	32	30	<u>62</u> 1.8
	MALE	2,263	0	2	<u>2</u> 0.1	5	11	<u>16</u> 0.7	20	14	<u>34</u> 1.5
	FEMALE	1,126	0	2	<u>2</u> 0.2	3	5	<u>8</u> 0.7	12	16	<u>28</u> 2.5
40-49	TOTAL	1,763	2	10	<u>12</u> 0.7	17	52	<u>69</u> 3.9	41	68	<u>109</u> 6.2
	MALE	1,081	1	8	<u>9</u> 0.8	12	35	<u>47</u> 4.3	26	40	<u>66</u> 6.1
	FEMALE	682	1	2	<u>3</u> 0.4	5	17	<u>22</u> 3.2	15	28	<u>43</u> 6.3
50-59	TOTAL	4,095	7	58	<u>65</u> 1.6	62	179	<u>241</u> 5.9	76	220	<u>296</u> 7.2
	MALE	2,617	3	47	<u>50</u> 1.9	42	119	<u>161</u> 6.2	48	134	<u>182</u> 7.0
	FEMALE	1,478	4	11	<u>15</u> 1.0	20	60	<u>80</u> 5.4	28	86	<u>114</u> 7.7
60-69	TOTAL	9,620	38	166	<u>204</u> 2.1	108	493	<u>601</u> 6.2	181	667	<u>848</u> 8.8
	MALE	5,692	25	101	<u>126</u> 2.2	70	266	<u>336</u> 5.9	83	369	<u>452</u> 7.9
	FEMALE	3,928	13	65	<u>78</u> 2.0	38	227	<u>265</u> 6.7	98	298	<u>396</u> 10.1

TABLE C-9 (continued)
ATHEROSCLEROSIS, HYPERTENSIVE DISEASE AND DIABETES—
UNDERLYING CAUSE AND MENTIONED CONDITIONS BY AGE GROUP AND SEX
1986

AGE	SEX	# OF DEATHS	ATHEROSCLEROSIS (440)			HYPERTENSIVE DISEASE (401-405)			DIABETES MELLITUS (250)		
			UNDER- LYING CAUSE	MEN- TIONED COND.	TOTAL # OF DEATHS	UNDER- LYING CAUSE	MEN- TIONED COND.	TOTAL # OF DEATHS	UNDER- LYING CAUSE	MEN- TIONED COND.	TOTAL # OF DEATHS
70-79	TOTAL	15,092	97	467	<u>564</u> 3.7	203	911	<u>1,114</u> 7.4	281	1,166	<u>1,447</u> 9.6
	MALE	7,930	54	230	<u>284</u> 3.6	98	381	<u>479</u> 6.0	126	547	<u>673</u> 8.5
	FEMALE	7,162	43	237	<u>280</u> 3.9	105	530	<u>635</u> 8.9	155	619	<u>774</u> 10.8
80 & OVER	TOTAL	21,897	436	1,181	<u>1,617</u> 7.4	307	1,095	<u>1,402</u> 6.4	368	1,330	<u>1,698</u> 7.8
	MALE	7,529	115	324	<u>439</u> 5.8	59	248	<u>307</u> 4.1	114	423	<u>537</u> 7.1
	FEMALE	14,368	321	857	<u>1,178</u> 8.2	248	847	<u>1,095</u> 7.6	254	907	<u>1,161</u> 8.1
GRAND	TOTAL*	55,860	580	1,886	<u>2,466</u> 4.4	705	2,746	<u>3,451</u> 6.2	979	3,481	<u>4,460</u> 8.0
TOTAL	MALE	27,115	198	712	<u>910</u> 3.4	286	1,060	<u>1,346</u> 5.0	417	1,527	<u>1,944</u> 7.2
TOTAL	FEMALE	28,745	382	1,174	<u>1,556</u> 5.4	419	1,686	<u>2,105</u> 7.3	562	1,954	<u>2,516</u> 8.8

*TOTAL INCLUDES ONE INFANT DEATH OF UNKNOWN SEX AND FOUR DEATHS OF UNKNOWN AGE.

TABLE C-10
SUICIDES BY CAUSE, SEX AND AGE, MASSACHUSETTS RESIDENTS
1986

		TOTAL	10-14	15-19	20-29	30-39	40-49	50-59	60-69	70-79	80+
ALL SUICIDES	M	408*	2	22	117	87	52	40	39	29	19
	F	135	0	6	23	35	19	16	18	11	7
	T	543*	2	28	140	122	71	56	57	40	26
	%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
POISONING BY SOLID OR LIQUID SUBSTANCE (E950)	M	32	0	1	12	9	5	3	1	0	1
	F	47	0	2	5	15	8	5	6	4	2
	T	79	0	3	17	24	13	8	7	4	3
	%	14.5	-	10.7	12.1	19.7	18.3	14.3	12.3	10.0	11.5
POISONING BY GASES AND VAPORS (NOT DOMESTIC GAS) (E952)	M	51	0	3	11	10	12	6	8	1	0
	F	14	0	1	2	5	2	2	1	1	0
	T	65	0	4	13	15	14	8	9	2	0
	%	12.0	-	14.3	9.3	12.3	19.7	14.3	15.8	5.0	-
HANGING, STRAN- GULATION AND SUFFOCATION (E953)	M	157	0	6	51	33	19	15	14	13	6
	F	37	0	0	8	10	6	5	4	3	1
	T	194	0	6	59	43	25	20	18	16	7
	%	35.7	0	21.4	42.1	35.2	35.2	35.7	31.6	40.0	26.9
SUBMERSION (DROWNING) (E954)	M	6	0	0	0	3	1	1	0	1	0
	F	9	0	0	0	1	1	1	2	3	1
	T	15	0	0	0	4	2	2	2	4	1
	%	2.8	-	-	-	3.3	2.8	3.6	3.5	10.0	3.8
FIREARMS AND EXPLOSIVES (E955)	M	135	2	12	36	26	12	11	12	13	11
	F	13	0	3	3	2	2	2	0	0	1
	T	165	2	18	56	28	23	10	12	10	12
	%	27.2	100.0	53.6	27.9	23.0	19.7	23.2	21.0	32.5	46.2
CUTTING AND PIERCING INSTRUMENTS (E956)	M	11	0	0	1	3	2	2	2	0	0
	F	4	0	0	1	0	0	0	3	0	0
	T	15	0	0	2	3	2	2	5	0	0
	%	2.8	-	-	1.4	2.4	2.8	3.6	8.8	-	-
JUMPING FROM HIGH PLACES (E957)	M	12	0	0	5	2	1	1	2	1	0
	F	8	0	0	3	2	0	0	2	0	1
	T	20	0	0	8	4	1	1	4	1	1
	%	3.7	-	-	5.7	3.3	1.4	1.8	7.0	2.5	3.8
OTHER AND UNSPECIFIED MEANS (E958)	M	4	0	0	1	1	0	1	0	0	1
	F	3	0	0	1	0	0	1	0	0	1
	T	7	0	0	2	1	0	2	0	0	2
	%	1.3	-	-	1.4	0.8	-	3.6	-	-	7.7

*TOTAL REFLECTS ONE RECORD OF UNKNOWN AGE. PERCENTS MAY NOT SUM TO 100.0 BECAUSE OF ROUNDING.

TABLE C-11
MOTOR VEHICLE ACCIDENTS BY TYPE, MASSACHUSETTS RESIDENTS
1986

- VICTIM -

TYPE OF ACCIDENT		TOTAL	DRIVER	PASSENGER	MOTORCYCLIST	PASSENGER, MOTORCYCLE	PEDESTRIAN	PEDAL CYCLIST	OTHER & UNSPEC- IFIED
TOTAL	M	584	237	101	58	7	126	12	43
	F	232	71	84	0	3	60	1	13
	T	816	308	185	58	10	186	13	56
	%	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
COLLISION WITH TRAIN (E810)	M	2	1	1					
	F	0	0	0					
	T	2	1	1					
	%	.3	.3	.5					
COLLISION WITH ANOTHER MOTOR VEHICLE (E812)	M	177	114	24	28	3			8
	F	91	40	47	0	2			2
	T	268	154	71	28	5			10
	%	32.8	50.0	38.4	48.3	50.0			17.8
COLLISION WITH ANOTHER VEHICLE (E813)	M	14						12	2
	F	1						1	0
	T	15						13	2
	%	1.8						100.0	3.6
MOTOR VEHICLE WITH PEDESTRIAN (E814)	M	124					124		
	F	59					59		
	T	183					183		
	%	22.4					98.4		
OTHER MOTOR VEHICLE ACCIDENT HIGHWAY COLLISION (E815)	M	173	94	48	20	2			9
	F	48	25	22	0	0			1
	T	221	119	70	20	2			10
	%	27.1	38.6	37.8	34.5	20.0			17.8
LOST CONTROL WITHOUT COLLISION (E816)	M	51	23	15	7	1			5
	F	16	5	9	0	0			2
	T	67	28	24	7	1			7
	%	8.2	9.1	13.0	12.1	10.0			12.5

TABLE C-11 (continued)
MOTOR VEHICLE ACCIDENTS BY TYPE, MASSACHUSETTS RESIDENTS
1986

		- VICTIM -							
TYPE OF ACCIDENT		TOTAL	DRIVER	PASSENGER	MOTORCYCLIST	PASSENGER, MOTORCYCLE	PEDESTRIAN	PEDAL CYCLIST	OTHER & UNSPEC- IFIED
NONCOLLISION	M	1		0					1
ACCIDENT WHILE	F	1		1					0
BOARDING OR	T	2		1					1
ALIGHTING (E817)	%	.3		.5					1.8
OTHER NON-COLLI-	M	19	2	10	1	1	1		4
SION MOTOR VEHI-	F	3	0	2	0	0	0		1
CLE (E818)	T	22	2	12	1	1	1		3
	%	2.7	.7	6.5	1.7	10.0	.5		8.9
MOTOR VEHICLE OF	M	16	2	2	2	0			10
UNSPECIFIED	F	10	1	3	0	1			3
NATURE (E819)	T	26	3	5	2	1			15
	%	3.2	1.0	2.7	3.4	10.0			26.8
OTHER OFF-ROAD	M	4		1					3
MOTOR VEHICLE	F	0		0					0
(E821)	T	4		1					3
	%	.5		.5					5.4
OTHER MOTOR VE-	M	3	1				1		1
HICLE NONTRAFFIC	F	2	0				1		1
COLLISION WITH	T	5	1				2		2
MOVING OBJECT	%	.6	.3				1.1		3.6
(E822)									
OTHER MOTOR VE-	M	0							0
HICLE NONTRAFFIC	F	1							1
OTHER & UNSPECI-	T	1							1
FIED NATURE	%	.1							1.8
(E825)									
PERCENTS MAY NOT SUM TO 100.0 BECAUSE OF ROUNDING.									

TABLE C-12
MEDICAL EXAMINER CERTIFIED DEATHS BY CAUSE, SEX, RACE AND AGE, MASSACHUSETTS OCCURRENCE
1986

AGE	RACE/SEX	- CAUSE -							
		TOTAL DEATHS CERT. BY M.E.	MOTOR VEHICLE ACCIDENTS (810-823)	ALL OTHER ACCIDENTS (800-807, 825-949)	SUICIDE (950-959)	HOMICIDE (960-969)	LGL INTER- VENTION/ UNDET. INJURY (970-999)	NON-VIOLENT CAUSES (000-778)	ILL-DEF. AND UNK. CAUSES (780-796)
TOTAL	WHITE M	6,313	536	420	375	98	116	4,671	97
	WHITE F	4,029	207	202	128	44	39	3,347	62
	NON-W M	407	23	29	22	60	20	236	17
	NON-W F	196	8	14	6	16	8	132	12
	TOTAL*	10,945	774	665	531	218	183	8,386	188
<1	WHITE M	62	0	5	0	1	1	19	36
	WHITE F	49	0	0	0	1	0	12	36
	NON-W M	14	0	0	0	0	0	6	8
	NON-W F	10	0	0	0	0	0	2	8
	TOTAL	135	0	5	0	2	1	39	88
1-4	WHITE M	21	5	7	0	0	1	6	2
	WHITE F	28	3	12	0	1	0	11	1
	NON-W M	2	1	0	0	0	0	1	0
	NON-W F	8	0	3	0	2	1	1	1
	TOTAL	59	9	22	0	3	2	19	4
5-9	WHITE M	23	15	4	0	0	0	4	0
	WHITE F	9	4	3	0	0	0	2	0
	NON-W M	2	2	0	0	0	0	0	0
	NON-W F	0	0	0	0	0	0	0	0
	TOTAL	34	21	7	0	0	0	6	0
10-14	WHITE M	19	7	4	2	2	1	3	0
	WHITE F	10	7	2	0	0	0	1	0
	NON-W M	5	2	1	0	1	0	1	0
	NON-W F	4	1	1	0	1	0	1	0
	TOTAL	38	17	8	2	4	1	6	0
15-19	WHITE M	187	96	32	20	11	8	15	5
	WHITE F	60	35	7	6	6	0	4	2
	NON-W M	18	5	2	1	8	1	1	0
	NON-W F	2	0	0	0	1	0	0	1
	TOTAL	267	136	41	27	26	9	20	8
20-29	WHITE M	454	181	56	100	31	28	50	8
	WHITE F	117	37	12	20	11	12	20	5
	NON-W M	58	5	8	12	21	4	5	3
	NON-W F	21	1	2	2	8	2	5	1
	TOTAL	650	224	78	134	71	46	80	17
30-39	WHITE M	464	71	65	79	25	53	152	19
	WHITE F	145	17	15	35	14	18	43	3
	NON-W M	73	6	5	6	21	9	24	2
	NON-W F	19	0	1	1	2	4	11	0
	TOTAL	701	94	86	121	62	84	230	24
40-44	WHITE M	249	26	25	21	7	6	157	7
	WHITE F	71	8	5	11	4	0	40	3
	NON-W M	21	1	2	0	1	2	14	1
	NON-W F	6	2	0	0	0	0	4	0
	TOTAL	347	37	32	32	12	8	215	11
45-49	WHITE M	268	14	20	29	5	4	195	1
	WHITE F	68	4	4	7	1	1	51	0
	NON-W M	22	1	1	1	3	1	15	0
	NON-W F	6	0	0	1	0	0	5	0
	TOTAL	364	19	25	38	9	6	266	1

TABLE C-12 (continued)
MEDICAL EXAMINER CERTIFIED DEATHS BY CAUSE, SEX, RACE AND AGE, MASSACHUSETTS OCCURRENCE
1986

AGE	RACE/SEX	- CAUSE -							
		TOTAL DEATHS CERT. BY M.E.	MOTOR VEHICLE ACCIDENTS (810-823)	ALL OTHER ACCIDENTS (800-807, 825-949)	SUICIDE (950-959)	HOMICIDE (960-969)	LGL INTER- VENTION/ UNDET. INJURY (970-999)	NON-VIOLENT CAUSES (000-778)	ILL-DEF. AND UNK. CAUSES (780-796)
50-54	WHITE M	345	18	22	15	9	6	272	3
	WHITE F	128	8	4	15	1	0	98	2
	NON-W M	25	0	1	0	1	0	22	1
	NON-W F	9	1	2	0	0	0	6	0
	TOTAL	507	27	29	30	11	6	398	6
55-59	WHITE M	480	14	19	24	1	2	413	7
	WHITE F	175	12	5	2	0	2	153	1
	NON-W M	29	0	4	0	2	2	21	0
	NON-W F	15	2	0	0	0	0	12	1
	TOTAL	699	28	28	26	3	6	599	9
60-64	WHITE M	636	16	29	22	0	0	569	0
	WHITE F	290	8	10	11	1	2	257	1
	NON-W M	37	0	3	0	1	0	32	1
	NON-W F	11	1	0	0	1	0	9	0
	TOTAL	974	25	42	33	3	2	867	2
65-69	WHITE M	747	19	18	15	2	1	690	2
	WHITE F	393	18	6	6	1	2	359	1
	NON-W M	35	0	2	0	1	1	31	0
	NON-W F	14	0	1	0	1	0	12	0
	TOTAL	1,189	37	27	21	5	4	1,092	3
70-74	WHITE M	750	19	29	20	2	2	676	2
	WHITE F	473	12	14	5	1	1	440	0
	NON-W M	22	0	0	1	0	0	21	0
	NON-W F	13	0	1	0	0	0	12	0
	TOTAL	1,258	31	44	26	3	3	1,149	2
75-79	WHITE M	662	13	23	10	1	1	611	3
	WHITE F	599	14	18	5	1	0	559	2
	NON-W M	24	0	0	0	0	0	24	0
	NON-W F	20	0	0	1	0	1	18	0
	TOTAL	1,305	27	41	16	2	2	1,212	5
80+	WHITE M	944	22	61	18	0	2	839	2
	WHITE F	1,414	20	85	5	1	1	1,297	5
	NON-W M	19	0	0	0	0	0	18	1
	NON-W F	38	0	3	1	0	0	34	0
	TOTAL	2,415	42	149	24	1	3	2,188	8
UNKWN	WHITE M	2	0	1	0	1	0	0	0
	WHITE F	0	0	0	0	0	0	0	0
	NON-W M	1	0	0	1	0	0	0	0
	NON-W F	0	0	0	0	0	0	0	0
	TOTAL	3	0	1	1	1	0	0	0

TABLE C-13
MEDICAL EXAMINER CERTIFIED DEATHS BY COUNTY
1986

COUNTY	POPULATION NUMBER/ PERCENT/ RANK	OCCURRENCE DEATHS NUMBER/ PERCENT/ RANK	MEDICAL EXAMINER NUMBER/ PERCENT/ RANK	% OF OCCURRENCE DEATHS CERTIFIED BY MED. EXAMINER	REFERRED BUT NOT CERTIFIED BY MED. EXAMINER	NONVIOLENT DEATHS CERTIFIED BY MED. EXAMINER	% OF MEDICAL EXAMINER DEATHS NON- VIOLENT
BARNSTABLE	170,033 2.9 9	2,034 3.6 9	490 4.5 9	24.1	122	402	82.0
BERKSHIRE	142,171 2.4 11	1,643 2.9 10	216 1.9 10	13.1	200	140	64.8
BRISTOL	486,567 8.3 6	4,142 7.3 7	1,115 10.2 4	26.9	206	936	83.9
DUKES	10,761 0.2 13	126 0.2 13	34 0.3 13	27.0	0	29	85.3
ESSEX	642,663 11.0 4	6,054 10.7 4	1,343 12.3 3	22.2	169	1,113	82.9
FRANKLIN	66,051 1.1 12	587 1.0 12	105 1.0 12	17.9	34	78	74.3
HAMPDEN	441,633 7.6 7	4,845 8.6 6	765 7.0 8	15.8	613	546	71.4
HAMPSHIRE	144,573 2.5 10	852 1.5 11	157 1.4 11	18.4	99	116	73.9

TABLE C-13 (continued)
MEDICAL EXAMINER CERTIFIED DEATHS BY COUNTY
1986

COUNTY	POPULATION NUMBER/ PERCENT/ RANK	OCCURRENCE DEATHS NUMBER/ PERCENT/ RANK	MEDICAL EXAMINER NUMBER/ PERCENT/ RANK	% OF OCCURRENCE DEATHS CERTIFIED BY MED. EXAMINER	REFERRED BUT NOT CERTIFIED BY MED. EXAMINER	NONVIOLENT DEATHS — CERTIFIED BY MED. EXAMINER	% OF MEDICAL EXAMINER DEATHS NON- VIOLENT
MIDDLESEX	1,366,546 23.4 1	11,604 20.6 1	2,577 23.5 1	22.2	806	2,145	83.2
NANTUCKET	5,862 0.1 14	58 0.1 14	10 0.1 14	17.2	1	7	70.0
NORFOLK	604,629 10.4 5	4,855 8.6 5	890 8.1 7	18.3	402	684	76.8
PLYMOUTH	431,800 7.4 8	3,192 5.7 8	1,004 9.2 5	31.4	232	818	81.5
SUFFOLK	657,825 11.3 3	10,034 17.8 2	1,344 12.3 2	13.4	1,693	806	60.0
WORCESTER	658,390 11.3 2	6,446 11.4 3	895 8.2 6	13.9	875	566	63.2
TOTAL	5,829,504 100.0* NA	56,472	10,945	19.4	5,452	8,386	76.6

*PERCENTAGES MAY NOT SUM TO 100.0 DUE TO ROUNDING.

TABLE C-14A
SELECTED CAUSES OF DEATH BY CITY AND TOWN OF RESIDENCE
1966

	HEART DISEASES (390-399, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS (810-825)	OTHER ACCIDENTS (800-807, 826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS- & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
ABINGTON	50	30	3	2	3	2	10	2	4	1	1	29	137
ACTION	24	28	6	1	1	3	1	1	2	0	0	20	87
ACUSHNET	31	12	1	0	1	4	1	2	1	2	0	10	65
ADAMS	57	28	7	4	3	2	4	2	2	0	1	23	133
AGAHAM	93	51	20	3	4	11	9	2	2	11	2	52	260
ALFORD	2	4	0	0	0	0	0	0	0	0	1	0	7
AMESBURY	72	31	11	3	1	10	10	3	2	2	1	24	170
AMHERST	33	26	11	1	0	4	2	1	0	1	1	16	96
ANDOVER	90	50	14	1	4	6	5	3	5	4	3	29	214
ARLINGTON	181	145	36	2	13	17	16	13	7	3	4	77	514
ASHBURNHAM	17	9	2	1	1	1	0	1	0	0	2	3	37
ASHBY	7	5	0	2	0	1	1	2	0	0	0	2	20
ASHFIELD	3	4	2	0	0	3	0	1	0	0	0	2	15
ASHLAND	19	22	4	0	2	4	3	1	3	1	1	8	68
ATHOL	48	25	8	4	1	7	7	5	2	3	4	22	136
ATTLEBORO	92	72	35	8	5	17	8	4	4	1	5	53	304
ALBURN	51	28	5	1	4	4	7	2	2	0	1	22	127
AVON	15	18	4	1	0	1	0	0	1	1	0	5	44
AYER	21	9	2	3	2	1	5	0	0	0	1	11	55
BARNSTABLE	147	141	42	4	14	14	12	15	4	9	2	84	488
BARRE	17	16	4	1	1	0	2	0	1	1	0	5	48
BECKET	4	2	0	0	0	0	0	0	0	1	0	1	8
BEDFORD	34	24	8	0	3	8	5	0	0	0	2	13	97
BELCHERTOWN	23	21	0	0	1	2	3	2	0	1	4	13	70
BELLINGHAM	20	29	4	0	0	4	3	0	1	0	0	18	79
BELMONT	106	63	13	4	3	14	16	2	4	2	3	58	288
BERKLEY	6	3	1	0	0	2	0	0	0	0	0	8	20
BERLIN	5	4	2	0	1	0	0	1	0	0	0	3	16
BERNARDSTON	5	6	2	1	0	0	1	1	0	0	0	0	16
BEVERLY	120	100	21	3	7	24	17	5	4	5	3	51	360
BILLERICA	72	65	8	7	1	11	6	2	5	1	1	30	209
BLACKSTONE	20	19	4	7	1	1	1	3	1	0	1	8	64
BLANDFORD	6	3	0	0	0	0	1	0	0	0	0	1	11
BOLTON	5	6	0	0	0	0	0	2	0	0	1	4	18
BOSTON	1963	1201	273	58	141	302	166	108	100	25	57	1237	5631
BOURNE	59	44	14	4	4	6	1	2	0	0	0	16	150
BOXBOROUGH	1	3	2	0	0	0	2	0	0	0	0	2	10
BOXFORD	9	5	2	0	1	2	0	0	0	0	2	5	26
BOYLSTON	11	6	2	0	1	0	4	0	1	0	1	7	33
BRAINTREE	170	82	30	7	5	12	13	6	8	6	1	59	399

BREHSTER	26	19	10	3	2	3	4	2	0	8	1	11	84
BRIDGEWATER	37	30	10	3	5	7	8	1	1	0	1	29	123
BRIMFIELD	4	6	4	0	0	0	1	1	0	0	0	3	19
BROCKTON	320	219	63	19	21	49	33	10	15	11	8	180	948
BROOKFIELD	8	16	0	1	0	2	0	1	0	0	0	2	30
BROOKLINE	225	143	29	4	12	30	20	6	3	6	8	110	594
BUCKLAND	5	2	1	0	0	0	0	0	0	0	1	2	11
BURLINGTON	45	41	6	2	2	12	4	0	4	2	3	21	142
CAMBRIDGE	280	179	55	10	23	34	23	16	8	2	0	164	814
CANTON	54	37	9	2	6	11	3	1	5	2	3	30	163
CARLISLE	6	4	1	0	0	0	0	1	1	0	0	5	18
CARVER	30	18	5	2	0	3	2	0	1	0	0	10	71
CHARLEHONT	2	3	0	0	0	0	0	0	0	0	0	2	7
CHARLTON	34	14	7	5	0	1	6	1	1	1	0	7	79
CHATHAM	34	32	6	0	0	1	3	1	1	7	1	14	102
CHELMSFORD	82	62	19	1	1	5	8	10	2	2	2	34	230
CHELSEA	124	71	10	6	9	18	15	10	3	0	2	61	329
CHESHIRE	10	9	1	0	0	0	2	1	1	0	1	4	29
CHESTER	5	1	0	0	1	1	0	1	0	0	0	2	11
CHESTERFIELD	0	1	0	0	1	0	0	0	0	0	0	1	3
CHICOPEE	276	166	42	11	9	18	28	14	6	10	4	84	648
CHILMARK	4	0	0	0	0	0	1	0	0	0	0	2	7
CLARKSBURG	2	2	1	0	0	1	0	0	0	1	0	2	9
CLINTON	49	31	7	4	3	10	2	4	1	0	2	24	139
COMASSET	28	10	10	0	1	9	2	4	1	1	1	13	80
COLRAIN	6	2	0	0	0	0	0	0	0	0	0	2	10
CONCORD	42	39	20	3	1	8	2	3	2	4	2	22	148
CONWAY	4	1	2	0	0	0	0	0	0	0	0	2	9
CUMMINGTON	3	4	0	0	0	1	0	0	0	0	0	0	8
DALTON	35	16	4	1	0	1	2	2	0	1	2	7	71
DANVERS	122	54	29	3	2	15	7	3	3	1	3	43	287
DARTMOUTH	92	57	16	4	3	9	3	4	3	1	1	26	219
DEBHAM	82	57	11	3	3	15	13	5	4	4	3	38	238
DEERFIELD	15	18	2	1	1	1	2	1	0	0	0	10	51
DENNIS	59	46	19	2	4	4	6	4	1	14	1	37	197
DIGHTON	14	7	5	0	0	0	1	1	0	0	0	6	34
DODGAS	16	7	0	0	1	1	3	0	0	0	1	10	39
DOVER	14	11	2	0	1	2	0	1	0	0	0	5	34
DRACUT	53	43	8	5	2	3	6	3	4	1	0	19	147
DUDLEY	34	21	3	4	2	5	4	2	1	1	2	13	92
DURSTABLE	5	2	0	0	0	0	0	0	0	0	0	4	11
DUNBURY	36	23	6	2	1	4	3	0	1	1	1	12	90
EAST BRIDGEWATER	19	25	4	1	2	8	4	3	0	1	0	13	80
EAST BROOKFIELD	6	6	2	0	0	0	1	0	0	0	0	3	18
EAST LONGMEADOW	46	32	11	2	3	7	4	0	1	8	2	16	127
EASTHAM	13	7	1	0	0	1	0	0	1	0	2	4	31
EASTHAMPTON	59	26	8	5	5	5	10	4	1	0	1	25	149
EASTON	43	19	8	2	3	5	7	1	4	1	1	17	111
EDGARTON	7	12	2	0	0	0	3	0	0	0	0	4	28
EGREMONT	2	4	0	0	0	1	0	1	0	0	0	2	10

TABLE C-14A (CONTINUED)
SELECTED CAUSES OF DEATH BY CITY AND TOWN OF RESIDENCE
1986

	HEART DISEASES (390-398, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS (810-825)	OTHER ACCIDENTS (800-807, 826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
ERVING	3	5	0	0	0	1	0	0	0	0	0	2	11
ESSEX	12	11	1	0	0	1	1	0	0	1	2	3	32
EVERETT	161	97	25	3	3	14	11	3	4	2	3	66	392
FAIRHAVEN	79	37	23	4	1	6	7	2	2	1	1	23	186
FALL RIVER	460	243	122	13	16	25	27	20	15	20	9	139	1109
FALMOUTH	103	77	25	4	5	24	12	3	1	0	4	32	290
FITCHBURG	182	87	25	3	9	13	17	8	5	4	7	65	425
FLORIDA	2	0	0	0	0	0	0	0	0	0	1	2	5
FOXBOROUGH	35	36	8	0	5	3	3	1	3	0	2	16	112
FRAMINGHAM	211	132	44	9	9	38	11	12	6	2	5	108	587
FRANKLIN	50	22	4	5	1	5	2	3	0	1	0	16	109
FREETOWN	12	10	4	2	1	1	0	0	1	0	1	4	36
GARDNER	88	45	11	6	6	9	5	7	2	0	1	43	223
GAY HEAD	0	1	0	0	0	0	0	0	0	0	0	0	1
GEORGETOWN	8	7	1	1	2	1	2	1	0	0	0	7	30
GILL	5	2	1	0	0	1	0	0	0	0	1	1	11
GLOUCESTER	100	66	22	4	6	9	12	5	2	5	2	41	274
GOSHEN	2	1	0	0	0	0	0	0	0	0	0	0	3
GOSNOLD	0	0	1	0	0	0	0	0	0	0	0	0	1
GRAFTON	38	24	3	2	4	1	2	2	0	0	2	12	90
GRANBY	17	11	0	1	1	1	1	1	1	0	0	3	37
GRANVILLE	2	0	0	0	0	1	0	0	1	0	1	2	7
GREAT BARRINGTON	37	18	5	0	5	5	7	2	1	8	0	27	115
GREENFIELD	84	50	19	6	3	15	13	5	2	3	4	41	245
GROTON	17	10	1	0	0	1	0	1	2	0	0	10	42
GROVELAND	8	7	5	4	0	1	2	1	1	0	0	6	35
HADLEY	15	17	3	1	1	4	1	0	0	1	0	7	50
HALIFAX	16	11	0	1	0	3	2	1	2	0	0	12	48
HAMILTON	18	13	5	1	2	1	2	0	0	0	0	7	49
HAMPDEN	15	18	3	0	1	2	1	0	0	1	0	5	46
HANCOCK	3	0	0	0	0	0	0	0	0	0	0	2	5
HANDOVER	23	18	6	2	1	2	3	0	0	0	0	9	64
HANSON	22	12	5	3	2	5	1	2	2	0	1	11	66
HARDWICK	10	7	2	1	1	1	0	1	1	0	1	5	30
HARVARD	13	8	0	1	1	1	1	1	1	0	0	1	28
HARMICH	50	42	12	2	1	4	3	2	4	6	2	33	161
HATFIELD	10	11	1	1	0	0	1	0	0	0	0	4	28
HAVERHILL	216	127	33	11	10	19	14	8	5	20	3	108	574
HAMLEY	0	1	0	1	0	0	0	0	0	0	1	0	3
HEATH	2	0	1	0	0	0	1	0	0	0	0	0	4

HINGHAM	54	41	3	1	6	7	5	3	3	1	1	22	147
HINSDALE	4	2	1	0	1	0	1	0	1	0	0	2	12
HOLBROOK	33	29	5	2	1	5	2	3	0	0	1	10	91
HOLDEN	34	27	13	1	2	3	3	0	0	1	0	14	98
HOLLAND	8	4	0	1	0	0	1	0	0	0	0	2	16
HOLLISTON	18	20	3	0	3	3	1	1	0	0	0	12	61
HOLYOKE	256	123	54	8	8	10	21	8	8	4	6	100	626
HOPEDALE	17	9	4	1	1	2	2	1	0	1	0	8	46
HOPKINTON	22	16	1	1	0	0	2	0	0	0	0	6	48
HUBBARDSTON	4	5	1	0	0	0	0	0	0	0	0	2	12
HUDSON	49	29	3	1	1	1	7	1	3	2	6	17	122
HULL	31	30	4	2	4	4	2	1	3	0	1	13	95
HUNTINGTON	6	1	1	1	1	1	0	0	0	0	0	7	18
IPSWICH	42	41	5	1	2	7	4	3	1	0	1	20	127
KINGSTON	25	14	4	2	1	6	2	1	2	0	0	14	71
LAKEVILLE	20	16	6	2	1	1	2	1	1	0	1	7	58
LANCASTER	13	7	3	1	1	2	1	1	0	0	0	13	42
LANESBOROUGH	4	2	2	2	0	0	1	1	1	0	0	2	15
LAURENCE	325	130	52	6	12	28	30	13	15	6	10	109	736
LEE	29	9	1	1	1	13	2	1	0	2	2	20	81
LEICESTER	27	17	1	3	0	5	3	0	1	0	0	12	69
LENOX	34	20	7	0	3	6	3	1	0	4	0	9	87
LEOMINSTER	118	81	31	3	2	16	9	7	1	2	3	48	321
LEVERETT	3	4	0	1	0	0	1	0	2	0	0	4	15
LEXINGTON	89	48	19	4	4	13	8	3	2	1	3	50	244
LEYDEN	3	0	1	0	0	0	0	0	0	0	0	1	5
LINCOLN	11	12	2	0	0	1	1	1	1	0	1	6	36
LITTLETON	25	21	8	0	0	4	3	3	3	0	2	9	78
LONGMEADOW	62	24	10	3	1	5	2	3	1	0	2	15	128
LOWELL	395	220	71	15	19	32	47	41	17	8	15	139	1019
LUDLOW	66	47	11	3	3	3	7	3	1	2	1	24	171
LUNENBURG	18	23	3	2	1	0	1	1	1	1	0	6	57
LYNN	387	214	62	9	19	40	47	9	18	8	4	122	941
LYNNFIELD	40	32	6	1	0	5	3	0	1	1	2	13	104
MALDEN	193	143	37	6	7	21	26	7	5	7	5	98	555
MANCHESTER	17	12	5	0	0	2	4	1	2	0	2	8	53
MANSFIELD	26	17	7	2	0	4	0	1	2	1	2	11	73
MARBLEHEAD	60	42	11	2	3	6	10	2	2	1	0	23	162
MARION	20	11	1	1	1	2	3	0	1	1	0	9	50
MARLBOROUGH	117	63	19	4	8	7	7	6	5	0	1	45	282
MARSHFIELD	45	29	7	5	5	5	5	3	1	1	2	19	127
MASHPEE	16	12	3	0	2	2	1	1	2	0	0	8	47
MATTAPOISETT	18	22	9	2	2	2	1	0	2	2	0	5	65
MAYNARD	35	23	10	0	2	1	3	2	2	0	0	11	89
MEDFIELD	24	21	4	2	1	1	0	0	2	0	0	10	65
MEDFORD	243	149	25	5	14	20	19	14	4	3	3	97	616
MEDWAY	30	21	4	1	3	2	1	2	1	0	0	10	75
MELROSE	134	71	35	2	10	15	13	1	10	4	1	48	346
MENDON	4	5	0	2	1	3	0	0	0	0	1	1	17
MERRIMAC	11	4	2	1	0	0	2	0	0	0	0	9	29

TABLE C-14A (CONTINUED)
SELECTED CAUSES OF DEATH BY CITY AND TOWN OF RESIDENCE
1986

	HEART DISEASES (390-398, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS (810-825)	OTHER ACCIDENTS (800-807, 826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
METHUEN	154	80	34	3	3	20	20	6	3	4	9	48	304
MIDDLEBOROUGH	79	37	11	4	5	6	4	1	4	0	1	23	175
MIDDLEFIELD	2	0	0	0	0	0	1	0	0	0	0	0	3
MIDDLETON	13	6	1	1	0	2	1	1	1	0	0	2	28
MILFORD	70	48	14	2	1	10	4	3	1	3	0	29	185
MILLBURY	39	30	9	4	3	3	3	2	1	1	1	18	114
MILLIS	16	14	2	0	1	2	4	2	0	0	0	5	46
MILLVILLE	8	3	2	1	0	0	0	1	0	1	0	5	21
MILTON	117	83	22	1	8	14	12	4	1	0	2	58	322
MONROE	1	2	1	0	0	0	0	0	0	0	0	0	4
MONSON	20	14	5	2	2	2	5	2	0	1	0	6	59
MONTAGUE	33	19	5	3	2	2	7	0	2	0	0	20	93
MONTEREY	1	3	4	0	0	1	0	0	0	1	0	1	11
MONTGOMERY	4	1	1	0	0	0	0	0	0	0	0	0	6
MOUNT WASHINGTON	1	2	2	0	0	0	1	0	0	0	0	0	6
NAHANT	11	7	3	0	0	0	3	0	0	0	0	8	32
NANTUCKET	23	14	5	1	2	6	0	6	1	1	1	8	68
NATICK	93	65	19	3	1	17	8	4	4	2	6	39	265
NEEDHAM	125	71	18	2	5	10	10	6	4	1	2	50	304
NEW ASHFORD	1	0	0	0	0	0	0	0	0	0	0	0	1
NEW BEDFORD	461	227	95	17	19	47	39	30	17	24	7	145	1128
NEW BRAINTREE	1	1	0	1	0	0	0	0	0	0	0	1	4
NEW MARLBOROUGH	2	0	1	0	0	0	0	0	1	1	0	0	5
NEW SALEM	1	2	0	0	0	0	0	0	0	0	0	0	3
NEMBURY	1	7	1	1	1	0	2	1	0	0	0	7	21
NEMBURYPORT	65	31	13	2	3	9	13	8	2	2	0	27	175
NEWTON	262	164	41	7	10	52	20	8	10	2	7	107	690
NORFOLK	8	5	1	1	3	0	0	0	0	0	2	3	23
NORTH ADAMS	100	44	24	3	6	4	8	3	5	2	4	21	224
NORTH ANDOVER	77	50	9	2	4	10	8	6	2	2	1	28	199
NORTH ATTLEBORO	38	36	29	6	1	8	2	4	0	1	0	20	145
NORTH BROOKFIELD	12	8	0	3	1	2	1	0	0	0	0	4	31
NORTH READING	33	16	5	1	1	4	6	5	0	1	2	11	85
NORTHAMPTON	115	65	24	3	9	18	5	1	6	2	4	40	292
NORTHBOROUGH	27	22	2	1	0	0	1	1	0	0	0	13	67
NORTHBRIDGE	42	26	7	3	2	5	2	3	1	2	0	19	112
NORTHFIELD	11	6	2	0	1	2	3	0	0	0	0	3	28
NORTON	20	9	12	4	1	2	3	0	0	3	2	8	64
NORHELL	25	20	1	2	2	2	2	0	2	0	0	10	66
NORWOOD	110	73	29	3	3	11	12	3	5	4	2	51	306

OAK BLUFFS	16	11	3	0	0	0	1	0	0	1	0	11	43
OAKHAM	2	5	1	0	0	0	0	0	1	0	0	1	10
ORANGE	30	20	7	1	1	4	5	2	1	1	0	1	83
ORLEANS	32	31	5	0	0	2	4	3	2	3	1	14	97
OTIS	3	4	0	9	0	0	0	0	0	0	0	1	8
OXFORD	33	24	3	3	2	3	7	0	1	2	1	10	89
PALMER	43	35	6	2	2	4	2	1	1	1	1	15	113
PAXTON	6	5	3	0	1	2	0	0	1	0	0	9	27
PEABODY	157	94	30	3	5	16	13	6	3	8	3	44	382
PELHAM	1	4	1	0	0	0	0	0	0	0	0	1	7
PEMBROKE	34	15	5	5	1	4	5	2	3	0	1	17	92
PEPPERELL	20	18	3	3	0	0	2	0	1	0	2	3	52
PERU	3	1	0	1	0	0	2	0	0	0	0	0	7
PETERSHAM	1	2	0	0	0	1	0	1	0	0	0	2	7
PHILLIPSTON	1	0	0	1	0	0	0	0	0	0	0	2	4
PITTSFIELD	198	130	31	8	3	28	14	9	2	4	8	89	524
PLAINFIELD	0	1	0	0	0	0	0	0	0	0	0	0	1
PLAINVILLE	17	9	5	1	0	1	3	1	0	0	1	6	44
PLYMOUTH	164	90	15	4	5	24	11	6	6	2	5	52	384
PLYMPTON	4	3	0	1	0	0	0	0	0	0	0	1	9
PRINCETON	5	3	1	2	0	0	0	0	1	0	0	1	13
PROVINCETOWN	18	12	7	1	2	3	1	0	1	1	0	11	57
QUINCY	363	256	67	10	30	36	41	10	13	6	15	158	1005
RANDOLPH	122	83	13	2	6	13	8	5	4	2	3	42	303
RAYNHAM	17	18	9	2	2	2	5	2	0	3	0	12	72
READING	56	48	7	0	4	6	6	1	1	2	4	36	171
REHOBOTH	16	8	3	1	1	1	1	1	0	0	0	5	37
REVERE	155	114	32	3	8	13	10	7	8	2	8	77	437
RICHMOND	2	2	0	1	0	1	0	0	0	0	0	2	8
ROCHESTER	8	5	3	1	0	0	1	0	0	0	1	1	20
ROCKLAND	40	27	8	2	0	10	6	4	2	1	0	7	107
ROCKPORT	23	28	6	1	2	6	4	4	6	0	1	7	88
ROME	0	0	0	0	0	0	0	0	0	0	0	0	0
ROMLEY	10	4	1	1	0	2	0	1	0	1	0	3	23
ROYALSTON	3	1	1	0	0	0	0	0	0	1	0	1	7
RUSSELL	1	2	0	0	0	2	1	0	1	0	0	1	8
RUTLAND	8	9	1	0	1	2	1	1	0	0	0	4	27
SALEM	156	77	28	1	2	19	17	6	5	2	3	60	376
SALISBURY	22	9	3	3	2	1	1	2	0	0	2	12	57
SANDISFIELD	2	3	2	1	0	2	0	1	0	0	0	4	15
SANDWICH	26	24	7	0	0	4	3	1	1	2	1	19	88
SAUGUS	86	55	11	2	2	9	12	4	2	0	2	25	210
SAVOY	1	1	0	0	0	1	0	0	0	0	0	1	4
SCITUATE	64	26	12	2	4	9	5	4	1	3	1	23	154
SEEKONK	25	22	8	1	0	3	0	1	2	0	3	12	77
SHARON	38	18	5	2	2	3	3	2	2	2	0	20	97
SHEFFIELD	4	5	1	0	0	1	0	0	1	0	0	3	15
SHELBURNE	8	6	3	0	0	2	3	0	1	2	0	5	30
SHERBORN	7	1	1	1	3	0	2	0	0	0	0	2	17
SHIRLEY	7	12	1	1	1	0	2	1	0	0	1	9	35

TABLE C-14A (CONTINUED)
SELECTED CAUSES OF DEATH BY CITY AND TOWN OF RESIDENCE
1986

	HEART DISEASES (390-398, 402, 404-429)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS (810-825)	OTHER ACCIDENTS (800-807, 826-949)	INFLUENZA & PNEUMONIA (480-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (250)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (950-959)	ALL OTHER CAUSES	TOTAL
SHREWSBURY	73	53	11	7	1	9	6	3	0	7	2	34	206
SHUTESBURY	3	0	0	0	0	0	1	0	0	0	0	0	4
SOMERSET	85	41	20	4	4	7	4	3	2	3	2	11	186
SOMERVILLE	272	172	47	7	13	44	27	30	13	5	6	150	786
SOUTH HADLEY	59	29	12	0	0	9	3	1	1	2	0	28	144
SOUTHAMPTON	11	9	2	1	1	0	1	0	1	0	0	2	28
SOUTHBOROUGH	17	8	3	0	2	1	2	0	0	0	2	6	41
SOUTHBRIDGE	65	38	13	5	1	9	5	4	1	2	0	31	174
SOUTHWICK	19	12	5	2	3	3	3	0	0	0	3	4	54
SPENCER	36	21	2	3	1	6	3	2	1	1	3	18	97
SPRINGFIELD	587	343	102	26	35	68	80	23	17	24	8	299	1612
STERLING	17	11	2	1	1	0	0	0	1	1	1	6	41
STOCKBRIDGE	9	6	1	0	0	0	2	0	0	0	0	4	22
STONEHAM	84	45	17	2	4	10	2	2	5	2	1	24	198
STOUGHTON	82	67	13	3	3	5	7	2	2	1	2	40	227
STON	11	8	4	1	1	1	1	0	1	1	0	3	32
STURBRIDGE	25	14	3	1	1	1	2	1	2	0	1	6	57
SUDBURY	22	19	2	1	0	2	2	3	0	0	3	17	71
SUNDERLAND	8	9	3	0	0	0	2	0	1	0	0	2	25
SUTTON	13	4	2	0	1	1	1	1	0	0	0	7	30
SWAMPSCOTT	70	35	11	3	0	9	5	0	1	0	1	25	160
SHANSEA	52	27	14	1	1	4	2	0	2	5	4	13	125
TAUNTON	167	95	57	5	4	23	10	7	6	2	3	71	450
TEMPLETON	23	13	3	0	3	4	1	0	3	1	0	11	62
TENKSBURY	61	49	6	2	3	7	6	4	3	1	0	28	170
TISBURY	14	12	1	0	0	2	0	2	0	1	0	5	37
TOLLAND	1	0	0	0	0	1	0	0	0	0	0	0	2
TOPSFIELD	11	11	3	0	4	1	1	1	0	0	1	1	34
TOWNSEND	13	9	3	2	0	2	2	0	1	0	0	6	38
TRURO	8	4	3	1	3	0	1	0	0	0	0	1	21
TYNGSBOROUGH	18	11	4	0	0	0	3	1	0	0	0	7	44
TRYINGHAM	1	1	0	0	0	0	0	0	0	0	0	1	3
UPTON	16	15	2	1	1	1	0	0	1	0	0	6	43
UXBRIDGE	33	15	3	1	1	6	5	0	0	0	2	12	78
WAKEFIELD	93	63	11	1	3	14	8	3	1	1	1	35	234
MALES	2	1	0	0	0	0	0	0	0	0	0	2	5
MALPOLE	45	33	12	4	1	8	2	2	3	2	1	24	137
MALTHAM	171	128	42	6	13	26	16	9	11	11	4	80	517
MARE	39	22	5	2	1	5	1	1	1	2	1	18	98
MAREHAM	90	57	11	3	4	10	10	3	6	2	0	26	222

WARREN	22	11	3	0	0	4	0	1	0	0	0	7	48
WARWICK	3	2	0	0	0	0	1	0	0	0	0	0	6
WASHINGTON	5	1	1	0	0	1	0	0	0	0	0	0	11
MATERTOWN	142	85	23	9	4	25	12	5	0	0	2	55	378
MAYLAND	46	23	4	2	1	5	1	2	1	3	7	21	107
WEBSTER	81	49	13	4	2	6	9	3	1	1	1	32	203
WELLESLEY	77	53	19	2	6	15	5	4	5	0	1	31	218
WELLFLEET	11	7	3	1	1	2	2	0	1	1	0	8	37
MENDELL	0	2	0	0	0	0	1	0	0	0	0	2	5
MENHAM	12	6	2	1	2	1	1	0	1	0	0	4	30
NEST BOYLSTON	25	14	4	2	1	1	3	1	0	0	4	12	67
NEST BRIDGEWATER	30	19	6	1	3	3	3	2	1	0	0	8	76
NEST BROOKFIELD	15	6	3	0	0	0	1	0	0	0	0	6	31
NEST NEMBURY	8	3	0	2	1	0	3	0	0	0	1	5	23
NEST SPRINGFIELD	100	55	22	1	4	11	10	2	4	8	3	46	266
NEST STOCKBRIDGE	2	2	2	1	0	0	1	0	0	0	0	2	10
NEST TISBURY	2	1	1	0	1	1	0	0	1	0	0	1	8
NESTBOROUGH	28	27	6	3	2	3	5	0	0	1	1	25	101
NESTFIELD	157	77	23	9	8	15	13	6	2	6	4	41	361
NESTFORD	29	29	7	3	2	2	1	3	0	0	2	11	89
NESTHAMPTON	1	1	1	1	0	1	0	0	0	0	0	0	5
NESTMINSTER	15	8	2	1	0	2	1	1	2	0	0	8	40
NESTON	27	23	11	1	2	2	2	0	1	2	2	16	89
NESTPORT	41	30	13	2	2	2	3	2	0	1	0	9	105
NESTHOOD	38	27	3	1	4	5	4	0	0	2	1	15	100
MEYMOUTH	192	139	44	5	10	22	14	6	10	2	5	60	509
WHATELY	1	0	0	1	0	0	0	0	1	0	0	2	5
WHITHAM	36	30	7	1	0	4	6	2	1	0	0	23	110
WILBRAHAM	29	21	8	0	2	5	4	1	3	2	0	7	82
WILLIAMSBURG	2	2	1	1	0	0	0	0	0	0	0	3	9
MILLJAMSTON	40	19	4	2	0	3	4	2	2	6	2	9	93
WILMINGTON	32	28	9	2	1	5	5	1	2	0	2	14	101
MINCHENDON	43	13	6	1	3	3	5	1	0	0	0	15	90
MINCHESTER	70	39	18	3	3	8	5	1	2	0	3	20	172
WINDSOR	1	3	0	0	0	0	0	0	0	0	0	0	4
WINTHROP	112	64	10	1	2	10	8	3	0	1	0	36	247
HOBURN	102	82	17	11	8	15	13	4	5	3	0	44	304
WORCESTER	721	403	114	28	41	117	60	39	23	29	17	371	1963
MORTHINGTON	4	3	0	1	0	0	1	0	1	1	0	0	11
MRENTAM	20	20	5	1	0	6	3	3	1	0	1	15	75
YARMOUTH	96	89	26	5	6	15	8	10	1	12	2	48	319
STATE TOTAL	20758	13084	3769	816	1041	2494	1929	979	752	500	543	9115	55860

TABLE C-148
SELECTED CAUSES OF DEATH BY COUNTY OF RESIDENCE
1966

	HEART DISEASES (390-590, 902, 904-929)	MALIGNANT NEOPLASMS (140-209)	CEREBROVASCULAR DISEASE (430-438)	MOTOR VEHICLE ACCIDENTS (610-825)	OTHER ACCIDENTS (600-607, 826-949)	INFLUENZA & PNEUMONIA (460-487)	CHRONIC OBSTRUCTIVE PULMONARY (490-496)	DIABETES MELLITUS (260)	CHRONIC LIVER DIS. & CIRRHOSIS (571)	ATHEROSCLEROSIS (440)	SUICIDE (750-753)	ALL OTHER CAUSES	TOTAL
BARNSTABLE	700	587	183	27	44	85	61	44	20	61	17	342	2171
BERKSHIRE	601	343	102	25	22	71	54	26	17	31	24	242	1850
BRISTOL	1777	990	482	78	65	172	123	85	61	69	42	607	4551
DUKES	43	37	8	0	1	3	5	2	1	2	0	23	125
ESSEX	2533	1453	443	77	102	282	276	103	87	73	62	934	6425
FRANKLIN	239	166	52	15	8	31	41	10	10	6	7	114	699
HAMPDEN	1802	1036	327	73	86	184	193	67	48	70	37	727	4658
HAMPSHIRE	402	255	70	19	21	51	30	11	12	10	11	160	1060
MIDDLESEX	4379	2945	793	159	212	543	409	241	176	83	126	1954	12020
NANTUCKET	23	14	5	1	2	6	0	6	1	1	1	8	68
NORFOLK	2150	1467	382	65	121	251	190	82	79	43	57	918	5805
PLYMOUTH	1340	878	215	76	79	182	139	52	65	27	26	576	3655
SUFFOLK	2354	1450	325	68	160	343	199	128	111	28	67	1411	6644
MORCESTER	2415	1463	382	133	118	290	209	122	64	68	66	1091	6421
STATE TOTAL	20758	13084	3769	816	1041	2494	1929	979	752	580	543	9115	55940

TABLE C-14C
SELECTED CAUSES OF DEATH BY HEALTH SERVICE AREA OF RESIDENCE
1986

		- CAUSES*-												
HSA	SUBAREA	TOTAL	1	2	3	4	5	6	7	8	9	10	11	12
STATE TOTAL		55,860	20,758	13,084	3,769	816	1,041	2,494	1,929	979	752	580	543	9,115
I	BERKSHIRE	1,565	604	345	103	25	22	71	55	26	17	31	24	242
	NORTHERN VALLEY	1,539	547	363	112	35	26	72	69	22	21	15	17	240
	SOUTHERN VALLEY	5,033	1,954	1,120	344	76	90	206	199	72	51	83	42	796
	TOTAL	8,137	3,105	1,828	559	136	138	349	323	120	89	129	83	1,278
II	NORTH	1,909	733	451	115	40	37	69	58	42	25	10	22	307
	CENTRAL	2,606	953	557	155	42	52	141	86	46	28	37	25	484
	SOUTH	2,040	781	505	115	60	31	80	70	36	15	17	16	314
	TOTAL	6,555	2,467	1,513	385	142	120	290	214	124	68	64	63	1,105
III	GREATER LOWELL	1,919	715	481	123	33	28	60	77	64	31	13	20	274
	GREATER LAWRENCE	1,533	646	310	109	12	23	64	63	28	25	16	23	214
	GTR HAVER-NEWBPT	1,163	430	235	72	29	21	45	49	25	10	25	9	213
	TOTAL	4,615	1,791	1,026	304	74	72	169	189	117	66	54	52	701
IV	METRO CENTRAL	7,240	2,579	1,593	354	72	172	373	219	134	114	34	75	1,521
	METRO NORTHWEST	3,960	1,374	959	281	50	78	190	135	81	59	23	39	691
	METRO WEST	4,069	1,494	982	267	53	73	215	117	68	61	27	49	663
	METRO SOUTHWEST	1,362	470	341	89	19	29	65	47	19	25	16	15	227
	METRO SOUTH	3,171	1,199	799	211	34	77	133	106	46	46	21	31	468
	TOTAL	19,802	7,116	4,674	1,202	228	429	976	624	348	305	121	209	3,570
V	ATTLEBORO AREA	630	193	143	88	21	7	32	16	10	6	6	10	98
	BROCKTON AREA	1,858	632	457	118	33	40	84	78	23	29	16	13	335
	PLYMOUTH AREA	1,129	439	260	61	29	16	66	40	19	20	5	10	164
	TAUNTON-MDLBORO	928	344	206	100	15	13	38	23	14	13	5	9	148
	FALL RIVER AREA	1,561	650	351	173	22	24	39	36	25	20	29	16	176
	NEW BEDFORD AREA	1,734	709	371	149	29	27	70	55	38	26	31	10	219
	CAPE COD	2,585	856	695	206	31	51	104	76	55	28	66	18	399
	TOTAL	10,425	3,823	2,483	895	180	178	433	324	184	142	158	86	1,539
VI	CAPE ANN	1,047	355	288	70	11	25	52	46	19	16	11	12	142
	DANVERS-SALEM	1,235	508	275	99	10	12	58	48	18	14	12	9	172
	GREATER LYNN	1,447	594	345	93	15	21	63	70	13	22	9	9	193
	EASTRN MIDDLESEX	1,034	402	243	75	6	22	49	35	12	17	10	9	154
	TRI-CITIES	1,563	597	409	87	14	24	55	56	24	13	12	11	261
	TOTAL	6,326	2,456	1,560	424	56	104	277	255	86	82	54	50	922

*SELECTED CAUSES ARE NUMBERED AS FOLLOWS:

1=HEART DISEASE (390-398, 402, 404-429)
2=MALIGNANT NEOPLASMS (140-208)
3=CEREBROVASCULAR DISEASE (430-438)
4=MOTOR VEHICLE ACCIDENTS (E810-E825)
5=OTHER ACCIDENTS (E800-E807, E826-E949)
6=INFLUENZA & PNEUMONIA (480-487)

7=CHRONIC OBSTRUCTIVE PULMONARY DISEASE (490-496)
8=DIABETES MELLITIS (250)
9=CHRONIC LIVER DISEASE & CIRRHOSIS (571)
10=ATHEROSCLEROSIS (440)
11=SUICIDE (E950-E959)
12=ALL OTHER CAUSES

TABLE C-15
RESIDENT DEATHS BY CAUSE, SEX, AND RACE
1984

ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
*001-139	I. INFECTIVE AND PARASITIC DISEASES	894	449	445	832	412	420	62	37	25
001-009	INTESTINAL INFECTIOUS DISEASES	8	4	4	8	4	4	0	0	0
004	OTHER SALMONELLA INFECTIONS	6	2	2	4	2	2	0	0	0
008	INTESTINAL INFECTIONS DUE TO OTHER ORGANISMS	1	1	0	1	1	0	0	0	0
009	ILL-DEFINED INTESTINAL INFECTIONS	3	1	2	3	1	2	0	0	0
010-018	TUBERCULOSIS	32	22	10	27	19	8	5	3	2
011	PULMONARY	29	20	9	24	17	7	5	3	2
013	MENINGES AND CENTRAL NERVOUS SYSTEM	1	1	0	1	1	0	0	0	0
015	BONES AND JOINTS	1	1	0	1	1	0	0	0	0
018	MILIARY	1	0	1	1	0	1	0	0	0
020-027	ZOONOTIC BACTERIAL DISEASES	6	3	3	6	3	3	0	0	0
027	OTHER ZOONOTIC BACTERIAL DISEASES	6	3	3	6	3	3	0	0	0
030-041	OTHER BACTERIAL DISEASES	659	301	358	618	278	340	41	23	18
031	DISEASES DUE TO OTHER MYCOBACTERIA	7	7	0	6	6	0	1	1	0
036	MENINGOCOCCAL INFECTION	7	5	2	6	5	1	1	0	1
038	SEPTICAEMIA	626	278	348	588	257	331	38	21	17
039	ACTINOMYCOTIC INFECTIONS	2	1	1	2	1	1	0	0	0
040	OTHER BACTERIAL DISEASES	4	2	2	4	2	2	0	0	0
041	BACTERIAL INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE	13	8	5	12	7	5	1	1	0
045-049	POLIO MYELITIS AND OTHER ENTEROVIRUS DIS. OF CENTRAL NERVOUS SYSTEM	14	9	5	13	8	5	1	1	0
046	SLOW VIRUS INFECTION OF CENTRAL NERVOUS SYSTEM	8	6	2	7	5	2	1	1	0
047	MENINGITIS DUE TO ENTEROVIRUS	2	1	1	2	1	1	0	0	0
049	OTHER VIRAL DISEASES OF CENTRAL NERVOUS SYSTEM	4	2	2	4	2	2	0	0	0
050-057	VIRAL DISEASES ACCOMPANIED BY EXANTHEM	13	6	7	13	6	7	0	0	0
052	CHICKENPOX	1	0	1	1	0	1	0	0	0
053	HERPES ZOSTER	4	1	3	4	1	3	0	0	0
054	HERPES SIMPLEX	8	5	3	8	5	3	0	0	0
060-066	ARTHOPOD-BORNE VIRAL DISEASES	1	1	0	1	1	0	0	0	0
062	MOSQUITO BORNE VIRAL ENCEPHALITIS	1	1	0	1	1	0	0	0	0
070-079	OTHER VIRAL DISEASES	39	23	16	37	22	15	2	1	1
070	VIRAL HEPATITIS	22	17	5	21	17	4	1	0	1
075	INFECTIOUS MONONUCLEOSIS	1	0	1	1	0	1	0	0	0
078	OTHER DISEASES DUE TO VIRUSES AND CHLAMYDIAE	3	0	3	3	0	3	0	0	0
079	VIRAL INFECTION IN CONDITIONS CLASSIFIED ELSEWHERE AND OF UNSPECIFIED SITE	13	6	7	12	5	7	1	1	0
090-099	SYPHILIS AND OTHER VENEREAL DISEASES	1	1	0	0	0	0	1	1	0
091	EARLY SYPHILIS, SYMPTOMATIC	1	1	0	0	0	0	1	1	0
110-118	MYCOSES	36	22	14	33	20	13	3	2	1
111	DERMATOMYCOSIS, OTHER AND UNSPECIFIED	1	0	1	1	0	1	0	0	0
112	CANDIDIASIS	22	12	10	21	12	9	1	0	1
117	OTHER MYCOSES	13	10	3	11	8	3	2	2	0
130-136	OTHER INFECTIVE AND PARASITIC DISEASES	76	51	25	67	45	22	9	6	3
130	TOXOPLASMOSIS	4	3	1	3	2	1	1	1	0
135	SARCIDOSIS	4	2	2	3	2	1	1	0	1
136	OTHER AND UNSPECIFIED INFECTIOUS AND PARASITIC DISEASES	68	46	22	61	41	20	7	5	2
137-139	LATE EFFECTS OF INFECTIOUS AND PARASITIC DISEASES	9	6	3	9	6	3	0	0	0
137	TUBERCULOSIS	5	2	3	5	2	3	0	0	0

TABLE C-15

1984

ICD. LIST NUMBER	CAUSE OF DEATH I. INFECTIVE AND PARASITIC DISEASES (CONTINUED)	***** TOTALS			***** WHITE			***** NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
138	ACUTE POLIOMYELITIS	4	4	0	4	4	0	0	0	0
*140 239	II. NEOPLASMS	15326	6663	6663	12917	6438	6479	405	222	183
140-149	MALIGNANT NEOPLASM OF LIP, ORAL CAVITY AND PHARYNX	239	162	77	230	156	74	8	5	5
140	LIP	1	1	0	1	1	0	0	0	0
141	TONGUE	55	37	18	52	34	18	2	2	0
142	MAJOR SALIVARY GLANDS	20	13	7	20	13	7	0	0	0
143	GUM	1	1	0	1	1	0	0	0	0
144	FLOOR OF MOUTH	11	9	2	11	9	2	0	0	0
145	OTHER AND UNSPECIFIED PARTS OF MOUTH	46	25	21	43	23	20	3	2	1
146	OROPHARYNX	31	20	11	29	20	9	2	0	2
147	NASOPHARYNX	11	6	5	11	6	5	0	0	0
148	HYPOPHARYNX	13	8	5	13	8	5	0	0	0
149	OTHER AND ILL-DEFINED SITES WITHIN THE LIP, ORAL CAVITY AND PHARYNX	50	42	8	49	41	8	1	1	0
150-159	MALIGNANT NEOPLASM OF DIGESTIVE ORGANS AND PERITONEUM	3517	1740	1777	3395	1669	1726	121	70	51
150	ESOPHAGUS	284	196	88	265	181	84	19	15	4
151	STOMACH	441	229	212	422	217	205	19	12	7
152	SMALL INTESTINE, INCLUDING DUODENUM	19	8	11	18	7	11	1	1	0
153	COLON	1453	678	775	1413	658	755	39	19	20
154	RECTUM, RECTOSIGMOID JUNCTION AND ANUS	287	153	134	282	150	132	5	3	2
155	LIVER AND INTRAHEPATIC BILE DUCTS	158	97	61	144	88	56	14	9	5
156	GALLBLADDER AND EXTRAHEPATIC BILE DUCTS	117	35	82	114	34	80	3	1	2
157	PANCREAS	664	300	364	644	290	354	20	10	10
158	RETROPERITONEUM AND PERITONEUM	12	6	6	12	6	6	0	0	0
159	OTHER AND ILL-DEFINED SITES WITHIN THE DIGESTIVE ORGANS AND PERITONEUM	82	38	44	81	38	43	1	0	1
160-165	MALIGNANT NEOPLASM OF RESPIRATORY AND INTRATHORACIC ORGANS	3358	2177	1181	3256	2110	1146	101	66	35
160	NASAL CAVITIES, MIDDLE EAR AND ACCESSORY SINUSES	11	7	4	9	5	4	2	2	0
161	LARYNX	112	73	39	108	70	38	4	3	1
162	TRACHEA, BRONCHUS AND LUNG	3218	2088	1130	3122	2026	1096	95	61	34
163	PLEURA	8	4	4	8	4	4	0	0	0
164	THYMUS, HEART AND MEDIASTINUM	9	5	4	9	5	4	0	0	0
170-175	MALIGNANT NEOPLASM OF BONE, CONNECTIVE TISSUE, SKIN, AND BREAST	1560	187	1373	1522	181	1341	38	6	32
170	BONE AND ARTICULAR CARTILAGE	16	10	6	16	10	6	0	0	0
171	CONNECTIVE AND OTHER SOFT TISSUE	67	37	30	65	36	29	2	1	1
172	MALIGNANT MELANOMA OF SKIN	158	90	66	158	90	68	0	0	0
173	OTHER MALIGNANT NEOPLASM OF SKIN	67	49	18	62	44	18	5	5	0
174	FEMALE BREAST	1251	0	1251	1220	0	1220	31	0	31
175	MALE BREAST	1	1	0	1	1	0	0	0	0
179-189	MALIGNANT NEOPLASM OF GENITOURINARY ORGANS	1925	1057	868	1875	1028	847	50	29	21
179	UTERUS, PART UNSPECIFIED	85	0	85	82	0	82	3	0	3

TABLE C-15 (CONTINUED)

1996

ICD. LIST NUMBER	CAUSE OF DEATH II. NEOPLASMS (CONTINUED)	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
180	CERVIX UTERI	91	0	91	79	0	79	12	0	12
181	PLACENTA	1	0	1	1	0	1	0	0	0
182	BODY OF UTERUS	91	0	91	89	0	89	2	0	2
183	OVARY AND OTHER UTERINE ADNEXA	366	0	366	363	0	363	3	0	3
184	OTHER AND UNSPECIFIED FEMALE GENITAL ORGANS	32	0	32	32	0	32	0	0	0
185	PROSTATE	708	708	0	683	683	0	25	25	0
186	TESTIS	9	9	0	9	9	0	0	0	0
187	PENIS AND OTHER MALE GENITAL ORGANS	2	2	0	2	2	0	0	0	0
188	BLADDER	305	205	100	302	203	99	3	2	1
189	KIDNEY AND OTHER AND UNSPECIFIED URINARY ORGANS	235	133	102	233	131	102	2	2	0
190-199	MALIGNANT NEOPLASM OF OTHER AND UNSPECIFIED SITES	1368	700	668	1326	678	648	42	22	20
190	EYE	5	3	2	5	3	2	0	0	0
191	BRAIN	245	129	116	241	125	116	4	4	0
192	OTHER AND UNSPECIFIED PARTS OF NERVOUS SYSTEM	6	1	5	6	1	5	0	0	0
193	THYROID GLAND	30	10	20	28	10	18	2	0	2
194	OTHER ENDOCRINE GLANDS AND RELATED STRUCTURES	20	5	15	20	5	15	0	0	0
195	OTHER AND ILL-DEFINED SITES	94	50	44	90	49	41	4	1	3
199	WITHOUT SPECIFICATION OF SITE	968	502	466	936	485	451	32	17	15
200-208	NEOPLASMS OF LYMPHATIC AND HEMATOPOIETIC TISSUE	1117	530	587	1080	510	570	36	20	16
200	LYMPHOSARCOMA AND RETICULOSARCOMA	99	55	44	96	52	44	3	3	0
201	HODGKIN'S DISEASE	60	30	30	59	30	29	1	0	1
202	OTHER MALIGNANT NEOPLASM OF LYMPHOID AND HISTIOCYTIC TISSUE	337	165	172	327	160	167	10	5	5
203	MULTIPLE MYELOMA AND IMMUNOPROLIFERATIVE NEOPLASMS	177	73	104	169	68	101	8	5	3
204	LYMPHOID LEUKAEMIA	116	61	55	115	61	54	1	0	1
205	MYELOID LEUKAEMIA	211	95	116	202	91	111	8	4	4
206	MONOCYTIC LEUKAEMIA	4	1	3	4	1	3	0	0	0
207	OTHER SPECIFIED LEUKAEMIA	5	1	4	5	1	4	0	0	0
208	LEUKAEMIA OF UNSPECIFIED CELL TYPE	108	49	59	103	46	57	5	3	2
210-229	BENIGN NEOPLASMS	29	10	19	27	9	18	2	1	1
211	OTHER PARTS OF DIGESTIVE SYSTEM	4	1	3	3	0	3	1	1	0
212	RESPIRATORY AND INTRATHORACIC ORGANS	2	2	0	2	2	0	0	0	0
214	LIPOMA	1	0	1	1	0	1	0	0	0
220	OVARY	1	0	1	1	0	1	0	0	0
225	BRAIN AND OTHER PARTS OF NERVOUS SYSTEM	18	6	12	17	6	11	1	0	1
227	OTHER ENDOCRINE GLANDS AND RELATED STRUCTURES	3	1	2	3	1	2	0	0	0
230-234	CARCINOMA IN SITU	2	0	2	2	0	2	0	0	0
233	BREAST AND GENITOURINARY SYSTEM	2	0	2	2	0	2	0	0	0
235-238	NEOPLASMS OF UNCERTAIN BEHAVIOUR	13	17	16	33	17	16	0	0	0
235	DIGESTIVE AND RESPIRATORY SYSTEMS	1	0	1	1	0	1	0	0	0
236	GENITOURINARY ORGANS	1	1	0	1	1	0	0	0	0
237	ENDOCRINE GLANDS AND NERVOUS SYSTEM	5	3	2	5	3	2	0	0	0
238	OTHER AND UNSPECIFIED SITES AND TISSUES	26	13	13	26	13	13	0	0	0
239-239	NEOPLASM OF UNSPECIFIED NATURE	178	83	95	171	80	91	7	3	4
239	NEOPLASM OF UNSPECIFIED NATURE	178	83	95	171	80	91	7	3	4

TABLE C-15

1986

ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
*240 279	III. ENDOCRINE, NUTRITIONAL, AND METABOLIC DISEASES	1422	637	785	1332	589	743	90	48	42
240-246	DISORDERS OF THYROID GLAND	14	4	10	13	3	10	1	1	0
242	THYROTOXICOSIS WITH OR WITHOUT GOITRE	2	1	1	2	1	1	0	0	0
244	ACQUIRED HYPOTHYROIDISM	12	3	9	11	2	9	1	1	0
250-259	DISEASES OF OTHER ENDOCRINE GLANDS	1000	429	571	951	408	543	49	21	28
250	DIABETES MELLITUS	979	417	562	931	396	535	48	21	27
251	OTHER DISORDERS OF PANCREATIC INTERNAL SECRETION	4	2	2	3	2	1	1	0	1
252	DISORDERS OF PARATHYROID GLAND	1	0	1	1	0	1	0	0	0
253	DISORDERS OF THE PITUITARY GLAND AND ITS HYPOTHALAMIC CONTROL	6	3	3	6	3	3	0	0	0
255	DISORDERS OF ADRENAL GLANDS	7	5	2	7	5	2	0	0	0
259	OTHER ENDOCRINE DISORDERS	3	2	1	3	2	1	0	0	0
260-269	NUTRITIONAL DEFICIENCIES	73	23	50	69	22	47	4	1	3
261	NUTRITIONAL MARASMUS	4	1	3	3	1	2	1	0	1
263	OTHER AND UNSPECIFIED PROTEIN-CALORIE MALNUTRITION	66	21	45	63	20	43	3	1	2
269	OTHER NUTRITIONAL DEFICIENCIES	3	1	2	3	1	2	0	0	0
270-279	OTHER METABOLIC AND IMMUNITY DISORDERS	335	181	154	299	156	143	36	25	11
270	DISORDERS OF AMINO-ACID TRANSPORT AND METABOLISM	2	0	2	2	0	2	0	0	0
271	DISORDERS OF CARBOHYDRATE TRANSPORT AND METABOLISM	2	1	1	2	1	1	0	0	0
272	DISORDERS OF LIPOID METABOLISM	11	5	6	11	5	6	0	0	0
273	DISORDERS OF PLASMA PROTEIN METABOLISM	14	6	8	14	6	8	0	0	0
274	GOUT	1	0	1	1	0	1	0	0	0
275	DISORDERS OF MINERAL METABOLISM	9	6	3	9	6	3	0	0	0
276	DISORDERS OF FLUID, ELECTROLYTE AND ACID-BASE BALANCE	136	48	88	127	43	84	9	5	4
277	OTHER AND UNSPECIFIED DISORDERS OF METABOLISM	44	19	25	42	19	23	2	0	2
278	OBESITY AND OTHER HYPERALIMENTATION	23	13	10	18	10	8	5	3	2
279	DISORDERS INVOLVING THE IMMUNE MECHANISM	93	83	10	73	66	7	20	17	3
*280 289	IV. DISEASES OF THE BLOOD AND BLOOD-FORMING ORGANS	204	95	109	193	92	101	11	3	8
280	IRON DEFICIENCY ANAEMIAS	1	1	0	1	1	0	0	0	0
281	OTHER DEFICIENCY ANAEMIAS	6	3	3	5	3	2	1	0	1
282	HEREDITARY HAEMOLYTIC ANAEMIAS	11	6	5	8	5	3	3	1	2
283	ACQUIRED HAEMOLYTIC ANAEMIAS	5	1	4	5	1	4	0	0	0
284	APLASTIC ANAEMIA	35	16	19	33	15	18	2	1	1
285	OTHER AND UNSPECIFIED ANAEMIAS	33	12	21	32	12	20	1	0	1
286	COAGULATION DEFECTS	27	16	11	25	15	10	2	1	1
287	PURPURA AND OTHER HAEMORRHAGIC CONDITIONS	25	8	17	24	8	16	1	0	1
288	DISEASES OF WHITE BLOOD CELLS	19	13	6	19	13	6	0	0	0
289	OTHER DISEASES OF BLOOD AND BLOOD-FORMING ORGANS	42	19	23	41	19	22	1	0	1

TABLE C-15 (CONTINUED)

1986

ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
*290-319	V. MENTAL DISORDERS	461	208	253	461	195	266	20	13	7
290-294	ORGANIC PSYCHOTIC CONDITIONS	145	56	89	139	53	86	4	3	3
290	SENILE AND PRESENILE ORGANIC PSYCHOTIC CONDITIONS	136	51	85	132	49	83	4	2	2
291	ALCOHOLIC PSYCHOSES	7	4	3	5	3	2	2	1	1
294	OTHER ORGANIC PSYCHOTIC CONDITIONS (CHRONIC)	2	1	1	2	1	1	0	0	0
295-299	OTHER PSYCHOSES	86	32	54	81	29	52	5	3	2
295	SCHIZOPHRENIC PSYCHOSES	6	3	3	6	3	3	0	0	0
296	AFFECTIVE PSYCHOSES	3	1	2	3	1	2	0	0	0
298	OTHER NONORGANIC PSYCHOSES	76	27	49	71	24	47	5	3	2
299	PSYCHOSES WITH ORIGIN SPECIFIC TO CHILDHOOD	1	1	0	1	1	0	0	0	0
300-316	NEUROSES, PERSONALITY DISORDERS, AND OTHER NONPSYCHOTIC DISORDERS	222	118	104	213	111	102	9	7	2
300	NEUROTIC DISORDERS	4	3	1	4	3	1	0	0	0
303	ALCOHOL DEPENDENCE SYNDROME	73	57	16	68	53	15	5	4	1
304	DRUG DEPENDENCE	2	0	2	2	0	2	0	0	0
305	NONDEPENDENT ABUSE OF DRUGS	27	19	8	24	17	7	3	2	1
307	SPECIAL SYMPTOMS OR SYNDROMES NOT ELSEWHERE CLASSIFIED	4	1	3	4	1	3	0	0	0
308	ACUTE REACTION TO STRESS	3	2	1	3	2	1	0	0	0
310	SPECIFIC NONPSYCHOTIC MENTAL DISORDERS FOLLOWING ORGANIC BRAIN DAMAGE	97	33	64	96	32	64	1	1	0
311	DEPRESSIVE DISORDER, NOT ELSEWHERE CLASSIFIED	11	2	9	11	2	9	0	0	0
312	DISTURBANCE OF CONDUCT NOT ELSEWHERE CLASSIFIED	1	1	0	1	1	0	0	0	0
317-319	MENTAL RETARDATION	8	2	6	8	2	6	0	0	0
318	OTHER SPECIFIED MENTAL RETARDATION	2	1	1	2	1	1	0	0	0
319	UNSPECIFIED MENTAL RETARDATION	6	1	5	6	1	5	0	0	0
*320-349	VI. DISEASES OF THE NERVOUS-SYSTEM AND SENSE ORGANS	1070	477	593	1047	467	580	23	10	13
320-326	INFLAMMATORY DISEASES OF THE CENTRAL NERVOUS SYSTEM	37	17	20	34	15	19	3	2	1
320	BACTERIAL MENINGITIS	12	7	5	11	6	5	1	1	0
322	MENINGITIS OF UNSPECIFIED CAUSE	11	2	9	11	2	9	0	0	0
323	ENCEPHALITIS, MYELITIS AND ENCEPHALOMYELITIS	12	6	6	10	5	5	2	1	1
324	INTRACRANIAL AND INTRASPINAL ABSCESS	2	2	0	2	2	0	0	0	0
330-337	HEREDITARY AND DEGENERATIVE DISEASES OF NERVOUS SYSTEM	724	314	410	718	310	408	4	4	2
330	CEREBRAL DEGENERATIONS USUALLY MANIFEST IN CHILDHOOD	1	0	1	1	0	1	0	0	0
331	OTHER CEREBRAL DEGENERATIONS	304	140	244	303	140	243	1	0	1
332	PARKINSON'S DISEASE	203	103	100	201	102	99	2	1	1
333	OTHER EXTRAPYRAMIDAL DISEASE AND ABNORMAL MOVEMENT DISORDERS	12	8	4	12	8	4	0	0	0
334	SPINO CEREBELLAR DISEASE	7	5	2	6	4	2	1	1	0
335	ANTERIOR HORN CELL DISEASE	112	57	55	110	55	55	2	2	0
336	OTHER DISEASES OF SPINAL CORD	4	0	4	4	0	4	0	0	0
337	DISORDERS OF THE AUTONOMIC NERVOUS SYSTEM	1	1	0	1	1	0	0	0	0
340-349	OTHER DISORDERS OF THE CENTRAL NERVOUS SYSTEM	248	112	136	235	109	126	13	3	10
340	MULTIPLE SCLEROSIS	50	18	32	49	18	31	1	0	1
341	OTHER DEMYELINATING DISEASES OF CENTRAL NERVOUS SYSTEM	11	3	8	11	3	8	0	0	0
342	HEMIPLEGIA	12	3	9	12	3	9	0	0	0

TABLE C-18

1966

ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
	VI. DISEASES OF THE NERVOUS SYSTEM AND SENSE ORGANS (CONTINUED)									
343	INFANTILE CEREBRAL PALSY	17	6	11	16	6	10	1	0	1
344	OTHER PARALYTIC SYNDROMES	25	14	9	23	14	9	0	0	0
345	EPILEPSY	24	20	14	31	19	12	3	1	2
348	OTHER CONDITIONS OF BRAIN	95	43	50	86	42	44	7	1	6
349	OTHER AND UNSPECIFIED DISORDERS OF THE NERVOUS SYSTEM	0	5	5	7	4	3	1	1	0
350-359	DISORDERS OF PERIPHERAL NERVOUS SYSTEM	50	33	25	57	32	25	1	1	0
352	DISORDERS OF OTHER CRANIAL NERVES	1	0	1	1	0	1	0	0	0
355	NEURORHEUMATISM OF LOWER LIMB	2	1	1	2	1	1	0	0	0
356	HEREDITARY AND IDIOPATHIC PERIPHERAL NEUROPATHY	0	1	7	0	1	7	0	0	0
357	INFLAMMATORY AND TOXIC NEUROPATHY	5	2	3	5	2	3	0	0	0
358	MYONEURAL DISORDERS	14	0	0	14	0	0	0	0	0
359	MUSCULAR DYSTROPHIES AND OTHER MYOPATHIES	26	21	5	25	20	5	1	1	0
360-379	DISORDERS OF EYE AND ADNEXA	1	0	1	1	0	1	0	0	0
366	CATARACT	1	0	1	1	0	1	0	0	0
380-389	DISEASES OF THE EAR AND MASTOID PROCESS	2	1	1	2	1	1	0	0	0
382	SUPPURATIVE AND UNSPECIFIED OTITIS MEDIA	2	1	1	2	1	1	0	0	0
390-459	VII. DISEASES OF THE CIRCULATORY SYSTEM	26145	12031	14114	25446	11674	13772	695	335	360
393-398	CHRONIC RHEUMATIC HEART DISEASE	147	55	112	143	53	110	4	2	2
394	DISEASES OF MITRAL VALVE	74	28	46	71	24	45	3	2	1
395	DISEASES OF AORTIC VALVE	5	3	2	5	3	2	0	0	0
396	DISEASES OF MITRAL AND AORTIC VALVES	13	4	9	12	4	8	1	0	1
397	DISEASES OF OTHER ENDOCARDIAL STRUCTURES	6	1	5	6	1	5	0	0	0
398	OTHER RHEUMATIC HEART DISEASE	69	19	50	69	19	50	0	0	0
401-405	HYPERTENSIVE DISEASE	705	286	419	646	253	393	59	33	26
401	ESSENTIAL HYPERTENSION	95	31	64	91	29	62	4	2	2
402	HYPERTENSIVE HEART DISEASE	455	197	258	413	171	242	42	24	18
403	HYPERTENSIVE RENAL DISEASE	105	41	64	90	39	59	7	2	5
404	HYPERTENSIVE HEART AND RENAL DISEASE	50	17	33	44	14	30	6	3	3
410-414	ISCHEMIC HEART DISEASE	14980	7181	7807	14714	7246	7468	260	133	128
410	ACUTE MYOCARDIAL INFARCTION	7420	3903	3515	7280	3890	3390	143	71	72
411	OTHER ACUTE AND SUBACUTE FORM OF ISCHAEMIC HEART DISEASE	27	13	14	27	13	14	0	0	0
412	OLD MYOCARDIAL INFARCTION	19	12	7	18	11	7	1	1	0
413	ANGINA PECTORIS	29	9	20	29	9	20	0	0	0
414	OTHER FORMS OF CHRONIC ISCHAEMIC HEART DISEASE	7405	3304	4101	7160	3325	4037	124	61	63
415-417	DISEASES OF PULMONARY CIRCULATION	209	119	170	271	131	140	10	0	10
415	ACUTE PULMONARY HEART DISEASE	241	102	139	229	94	133	12	4	8
416	CHRONIC PULMONARY HEART DISEASE	47	16	31	42	15	27	5	1	4
417	OTHER DISEASES OF PULMONARY CIRCULATION	1	1	0	0	0	0	1	1	0
420-429	OTHER FORMS OF HEART DISEASE	4809	2235	2574	4587	2110	2477	222	125	97
420	ACUTE PERICARDITIS	1	0	1	1	0	1	0	0	0
421	ACUTE AND SUBACUTE ENDOCARDITIS	15	20	15	35	10	15	0	0	0
422	ACUTE MYOCARDITIS	5	1	4	4	1	3	1	0	1
423	OTHER DISEASES OF PERICARDIUM	19	9	10	14	0	0	3	1	2
424	OTHER DISEASES OF ENDOCARDIUM	339	153	184	334	151	183	5	2	3
425	CARDIOMYOPATHY	359	239	120	335	210	115	24	19	5

TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH VII. DISEASES OF THE CIRCULATORY SYSTEM (CONTINUED)	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
426	CONDUCTION DISORDERS	29	8	21	28	8	20	1	0	1
427	CARDIAC DYSRHYTHMIAS	1667	787	880	1613	758	855	54	29	25
428	HEART FAILURE	1073	411	662	1038	400	638	35	11	24
429	ILL-DEFINED DESCRIPTIONS AND COMPLICATIONS OF HEART DISEASE	1282	607	675	1183	544	639	99	63	36
430-438	CEREBROVASCULAR DISEASE	3769	1318	2451	3678	1279	2399	91	39	52
430	SUBARACHNOID HAEMORRHAGE	152	52	100	145	49	96	7	3	4
431	INTRACEREBRAL HAEMORRHAGE	544	204	340	526	196	330	18	8	10
432	OTHER AND UNSPECIFIED INTRACRANIAL HAEMORRHAGE	51	23	28	47	21	26	4	2	2
433	OCCCLUSION AND STENOSIS OF PRECEREBRAL ARTERIES	30	16	14	30	16	14	0	0	0
434	OCCCLUSION OF CEREBRAL ARTERIES	705	241	464	692	235	457	13	6	7
435	TRANSIENT CEREBRAL ISCHAEMIA	11	3	8	11	3	8	0	0	0
436	ACUTE BUT ILL-DEFINED CEREBROVASCULAR DISEASE	1710	604	1106	1670	587	1083	40	17	23
437	OTHER AND ILL-DEFINED CEREBROVASCULAR DISEASE	339	98	241	337	97	240	2	1	1
438	LATE EFFECTS OF CEREBROVASCULAR DISEASE	227	77	150	220	75	145	7	2	5
440-448	DISEASES OF ARTERIES, ARTERIOLES, AND CAPILLARIES	1289	576	713	1263	564	699	26	12	14
440	ATHEROSCLEROSIS	580	198	382	575	195	380	5	3	2
441	AORTIC ANEURYSM	458	288	170	446	283	163	12	5	7
442	OTHER ANEURYSM	18	13	5	18	13	5	0	0	0
443	OTHER PERIPHERAL VASCULAR DISEASE	122	44	78	117	42	75	5	2	3
444	ARTERIAL EMBOLISM AND THROMBOSIS	61	16	45	59	15	44	2	1	1
446	POLYARTERITIS NODOSA AND ALLIED CONDITIONS	13	3	10	13	3	10	0	0	0
447	OTHER DISORDERS OF ARTERIES AND ARTERIOLES	33	14	19	31	13	18	2	1	1
448	DISEASES OF CAPILLARIES	4	0	4	4	0	4	0	0	0
451-459	DISEASES OF VEINS AND LYMPHATICS, AND OTHER DIS. OF CIRCULATORY SYS.	129	61	68	124	58	66	5	3	2
451	PHLEBITIS AND THROMBOPHLEBITIS	37	15	22	37	15	22	0	0	0
453	OTHER VENOUS EMBOLISM AND THROMBOSIS	7	3	4	7	3	4	0	0	0
454	VARICOSE VEINS OF LOWER EXTREMITIES	2	2	0	1	1	0	1	1	0
456	VARICOSE VEINS OF OTHER SITES	11	8	3	11	8	3	0	0	0
457	NONINFECTIVE DISORDERS OF LYMPHATIC CHANNELS	2	1	1	2	1	1	0	0	0
458	HYPOTENSION	49	22	27	46	20	26	3	2	1
459	OTHER DISORDERS OF CIRCULATORY SYSTEM	21	10	11	20	10	10	1	0	1

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ICD LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
460-519	VIII. DISEASES OF THE RESPIRATORY SYSTEM	5133	2579	2554	5000	2506	2494	133	73	60
460-466	ACUTE RESPIRATORY INFECTIONS	23	8	15	22	8	14	1	0	1
461	ACUTE SINUSITIS	1	0	1	1	0	1	0	0	0
462	ACUTE PHARYNGITIS	1	0	1	0	0	0	1	0	1
464	ACUTE LARYNGITIS AND TRACHEITIS	1	1	0	1	1	0	0	0	0
465	ACUTE UPPER RESPIRATORY INFECTIONS OF MULTIPLE OR UNSPECIFIED SITES	5	0	5	5	0	5	0	0	0
466	ACUTE BRONCHITIS AND BRONCHIOLITIS	15	7	8	15	7	8	0	0	0
470-478	OTHER DISEASES UPPER RESPIRATORY TRACT	11	3	8	10	3	7	1	0	1
473	CHRONIC SINUSITIS	1	1	0	1	1	0	0	0	0
474	CHRONIC DISEASE OF TONSILS AND ADENOIDS	1	0	1	1	0	1	0	0	0
478	OTHER DISEASES OF UPPER RESPIRATORY TRACT	9	2	7	8	2	6	1	0	1
480-487	PNEUMONIA AND INFLUENZA	2494	1105	1389	2427	1068	1359	67	37	30
480	VIRAL PNEUMONIA	15	9	6	14	8	6	1	1	0
481	PNEUMOCOCCAL PNEUMONIA	99	51	48	94	47	47	5	4	1
482	OTHER BACTERIAL PNEUMONIA	104	59	45	102	57	45	2	2	0
483	PNEUMONIA DUE TO OTHER SPECIFIED ORGANISM	7	4	3	7	4	3	0	0	0
485	BRONCHOPNEUMONIA, ORGANISM UNSPECIFIED	279	105	174	272	102	170	7	3	4
486	PNEUMONIA, ORGANISM UNSPECIFIED	1939	864	1075	1888	837	1051	51	27	24
487	INFLUENZA	51	13	38	50	13	37	1	0	1
490-496	CHRONIC OBSTRUCTIVE PULMONARY DISEASE AND ALLIED CONDITIONS	1929	1092	837	1898	1073	825	31	19	12
490	BRONCHITIS, NOT SPECIFIED AS ACUTE OR CHRONIC	20	9	11	20	9	11	0	0	0
491	CHRONIC BRONCHITIS	89	39	50	89	39	50	0	0	0
492	EMPHYSEMA	334	211	123	331	209	122	3	2	1
493	ASTHMA	117	39	78	108	36	72	9	3	6
494	BRONCHIECTASIS	18	8	10	18	8	10	0	0	0
496	CHRONIC AIRWAYS OBSTRUCTION, NOT ELSEWHERE CLASSIFIED	1351	786	565	1332	772	560	19	14	5
500-508	PNEUMOCONIOSES AND OTHER LUNG DISEASES DUE TO EXTERNAL AGENTS	254	147	107	244	141	103	10	6	4
501	ASBESTOSIS	11	11	0	11	11	0	0	0	0
503	PNEUMOCONIOSIS DUE TO OTHER INORGANIC DUST	1	1	0	1	1	0	0	0	0
505	PNEUMOCONIOSIS, UNSPECIFIED	1	1	0	1	1	0	0	0	0
506	RESPIRATORY CONDITIONS DUE TO CHEMICAL FUMES AND VAPOURS	1	1	0	1	1	0	0	0	0
507	PNEUMONITIS DUE TO SOLIDS AND LIQUIDS	240	133	107	230	127	103	10	6	4
510-519	OTHER DISEASES OF RESPIRATORY SYSTEM	422	224	198	399	213	186	23	11	12
510	EMPHYEMA	12	8	4	10	7	3	2	1	1
511	PLEURISY	23	9	14	22	8	14	1	1	0
512	PNEUMOTHORAX	4	2	2	4	2	2	0	0	0
513	ABSCESS OF LUNG AND MEDIASTINUM	17	13	4	16	12	4	1	1	0
514	PULMONARY CONGESTION AND HYPOSTASIS	33	17	16	31	16	15	2	1	1
515	POSTINFLAMMATORY PULMONARY FIBROSIS	80	45	43	84	45	39	4	0	4
516	OTHER ALVEOLAR AND PARIETOALVEOLAR PNEUMOPATHY	29	18	11	28	18	10	1	0	1
518	OTHER DISEASES OF LUNG	182	89	93	171	82	89	11	7	4
519	OTHER DISEASES OF RESPIRATORY SYSTEM	34	23	11	33	23	10	1	0	1

TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
*520-579	IX. DISEASES OF THE DIGESTIVE SYSTEM	2189	1066	1123	2096	1009	1087	93	57	36
520-529	DISEASES OF ORAL CAVITY, SALIVARY GLANDS AND JAWS	5	2	3	5	2	3	0	0	0
522	DISEASES OF PULP AND PERIAPICAL TISSUES	1	1	0	1	1	0	0	0	0
527	DISEASES OF THE SALIVARY GLANDS	2	0	2	2	0	2	0	0	0
528	DISEASES OF THE ORAL SOFT TISSUES, EXCLUDING LESIONS SPECIFIC FOR GINGIVA AND TONGUE	2	1	1	2	1	1	0	0	0
530-537	DISEASES OF ESOPHAGUS, STOMACH, AND DUODENUM	237	101	136	226	93	133	11	8	3
530	DISEASES OF OESOPHAGUS	45	17	28	45	17	28	0	0	0
531	GASTRIC ULCER	57	24	33	51	20	31	6	4	2
532	DUODENAL ULCER	48	24	24	46	23	23	2	1	1
533	PEPTIC ULCER, SITE UNSPECIFIED	40	18	22	39	17	22	1	1	0
535	GASTRITIS AND DUODENITIS	23	9	14	23	9	14	0	0	0
536	DISORDERS OF FUNCTION OF STOMACH	3	1	2	3	1	2	0	0	0
537	OTHER DISORDERS OF STOMACH AND DUODENUM	21	8	13	19	6	13	2	2	0
540-543	APPENDICITIS	6	5	1	6	5	1	0	0	0
540	ACUTE APPENDICITIS	5	4	1	5	4	1	0	0	0
541	APPENDICITIS, UNQUALIFIED	1	1	0	1	1	0	0	0	0
550-553	HERNIA OF ABDOMINAL CAVITY	41	22	19	40	22	18	1	0	1
550	INGUINAL HERNIA	8	7	1	8	7	1	0	0	0
551	OTHER HERNIA OF ABDOMINAL CAVITY, WITH GANGRENE	3	1	2	3	1	2	0	0	0
552	OTHER HERNIA OF ABDOMINAL CAVITY WITH OBSTRUCTION, WITHOUT MENTION OF GANGRENE	17	7	10	16	7	9	1	0	1
553	OTHER HERNIA OF ABDOMINAL CAVITY WITHOUT MENTION OF OBSTRUCTION OR GANGRENE	13	7	6	13	7	6	0	0	0
555-558	NONINFECTIVE ENTERITIS AND COLITIS	233	75	158	226	74	152	7	1	6
555	REGIONAL ENTERITIS	13	4	9	13	4	9	0	0	0
556	IDIOPATHIC PROCTOCOLITIS	13	2	11	13	2	11	0	0	0
557	VASCULAR INSUFFICIENCY OF INTESTINE	185	63	122	179	62	117	6	1	5
558	OTHER NONINFECTIVE GASTROENTERITIS AND COLITIS	22	6	16	21	6	15	1	0	1
560-569	OTHER DISEASES OF INTESTINE AND PERITONEUM	321	98	223	312	92	220	9	6	3
560	INTESTINAL OBSTRUCTION WITHOUT MENTION OF HERNIA	99	27	72	97	26	71	2	1	1
562	DIVERTICULA OF INTESTINE	85	23	62	84	22	62	1	1	0
564	FUNCTIONAL DIGESTIVE DISORDERS, NOT ELSEWHERE CLASSIFIED	3	1	2	3	1	2	0	0	0
565	ANAL FISSURE AND FISTULA	1	1	0	1	1	0	0	0	0
566	ABCESS OF ANAL AND RECTAL REGIONS	3	0	3	3	0	3	0	0	0
567	PERITONITIS	61	25	36	58	23	35	3	2	1
568	OTHER DISORDERS OF PERITONEUM	3	0	3	3	0	3	0	0	0
569	OTHER DISORDERS OF INTESTINE	66	21	45	63	19	44	3	2	1
570-579	OTHER DISEASES OF DIGESTIVE SYSTEM	1346	763	583	1281	721	560	65	42	23
570	ACUTE AND SUBACUTE NECROSIS OF LIVER	8	4	4	7	3	4	1	1	0
571	CHRONIC LIVER DISEASE AND CIRRHOSIS	752	442	310	717	415	302	35	27	8
572	LIVER ABSCESS AND SEQUELAE OF CHRONIC LIVER DISEASE	155	94	61	144	89	55	11	5	6
573	OTHER DISORDERS OF LIVER	44	26	18	42	25	17	2	1	1
574	CHOLELITHIASIS	34	16	18	34	16	18	0	0	0
575	OTHER DISORDERS OF GALLBLADDER	56	30	26	52	27	25	4	3	1
576	OTHER DISORDERS OF BILIARY TRACT	26	13	13	26	13	13	0	0	0
577	DISEASES OF PANCREAS	64	37	27	59	33	26	5	4	1

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ICD. LIST NUMBER	CAUSE OF DEATH IX. DISEASES OF THE DIGESTIVE SYSTEM (CONTINUED)	*****								
		TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
578	GASTROINTESTINAL HAEMORRHAGE	203	99	104	196	98	98	7	1	6
579	INTESTINAL MALABSORPTION	4	2	2	4	2	2	0	0	0
*580-629	X. DISEASES OF THE GENITOURINARY SYSTEM	1052	454	598	1004	430	574	48	24	24
580-589	NEPHRITIS AND NEPHROSIS	637	292	345	605	275	330	32	17	15
580	ACUTE GLOMERULONEPHRITIS	5	4	1	5	4	1	0	0	0
581	NEPHROTIC SYNDROME	7	2	5	7	2	5	0	0	0
582	CHRONIC GLOMERULONEPHRITIS	24	11	13	22	10	12	2	1	1
583	NEPHRITIS AND NEPHROPATHY, NOT SPECIFIED AS ACUTE OR CHRONIC	10	2	8	10	2	8	0	0	0
584	ACUTE RENAL FAILURE	136	69	67	127	63	64	9	6	3
585	CHRONIC RENAL FAILURE	148	70	78	139	66	73	9	4	5
586	RENAL FAILURE, UNSPECIFIED	303	133	170	291	127	164	12	6	6
587	RENAL SCLEROSIS, UNSPECIFIED	2	1	1	2	1	1	0	0	0
588	DISORDERS RESULTING FROM IMPAIRED RENAL FUNCTION	2	0	2	2	0	2	0	0	0
590-599	OTHER DISEASES OF URINARY SYSTEM	389	144	245	373	137	236	16	7	9
590	INFECTIONS OF KIDNEY	27	10	17	27	10	17	0	0	0
591	HYDRONEPHROSIS	3	1	2	2	0	2	1	1	0
592	CALCULUS OF KIDNEY AND URETER	10	5	5	9	4	5	1	1	0
593	OTHER DISORDERS OF KIDNEY AND URETER	42	20	22	41	20	21	1	0	1
595	CYSTITIS	1	0	1	1	0	1	0	0	0
596	OTHER DISORDERS OF BLADDER	5	3	2	5	3	2	0	0	0
598	URETHRAL STRICTURE	3	2	1	3	2	1	0	0	0
599	OTHER DISORDERS OF URETHRA AND URINARY TRACT	298	103	195	285	98	187	13	5	8
600-608	DISEASES OF MALE GENITAL ORGANS	18	18	0	18	18	0	0	0	0
600	HYPERPLASIA OF PROSTATE	12	12	0	12	12	0	0	0	0
601	INFLAMMATORY DISEASES OF PROSTATE	1	1	0	1	1	0	0	0	0
602	OTHER DISORDERS OF PROSTATE	3	3	0	3	3	0	0	0	0
608	OTHER DISORDERS OF MALE GENITAL ORGANS	2	2	0	2	2	0	0	0	0
610-611	DISORDERS OF BREAST	3	0	3	3	0	3	0	0	0
611	OTHER DISORDERS OF BREAST	3	0	3	3	0	3	0	0	0
614-616	INFLAMMATORY DISEASE OF FEMALE PELVIC ORGANS	3	0	3	3	0	3	0	0	0
614	INFLAMMATORY DISEASE OF OVARY, FALLOPIAN TUBE, PELVIC CELLULAR TISSUE AND PERITONIUM	2	0	2	2	0	2	0	0	0
616	INFLAMMATORY DISEASE OF CERVIX, VAGINA AND VULVA	1	0	1	1	0	1	0	0	0
617-629	OTHER DISORDERS OF FEMALE GENITAL TRACT	2	0	2	2	0	2	0	0	0
623	NONINFLAMMATORY DISORDERS OF VAGINA	2	0	2	2	0	2	0	0	0

TABLE C-15 (CONTINUED)

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ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
*630 676	XI. COMPLICATIONS OF PREGNANCY, CHILDBIRTH, AND PUERPERIUM	0	0	0	0	0	0	0	0	0
*680 709	XII. DISEASES OF THE SKIN AND SUBCUTANEOUS TISSUE	116	44	72	111	42	69	5	2	3
680-686	INFECTIONS OF SKIN AND SUBCUTANEOUS TISSUE	26	10	16	26	10	16	0	0	0
682	OTHER CELLULITIS AND ABSCESS	21	8	13	21	8	13	0	0	0
686	OTHER LOCAL INFECTIONS OF SKIN AND SUBCUTANEOUS TISSUE	5	2	3	5	2	3	0	0	0
690-698	OTHER INFLAMMATORY CONDITIONS OF SKIN AND SUBCUTANEOUS TISSUE	11	4	7	10	3	7	1	1	0
692	CONTACT DERMATITIS AND OTHER ECZEMA	1	1	0	1	1	0	0	0	0
694	BULLOUS DERMATOSES	5	1	4	5	1	4	0	0	0
695	ERYTHEMATOUS CONDITIONS	5	2	3	4	1	3	1	1	0
700-709	OTHER DISEASES OF SKIN AND SUBCUTANEOUS TISSUE	79	30	49	75	29	46	4	1	3
707	CHRONIC ULCER OF SKIN	78	30	48	74	29	45	4	1	3
709	OTHER DISORDERS OF SKIN AND SUBCUTANEOUS TISSUE	1	0	1	1	0	1	0	0	0
*710 739	XIII. DISEASES OF THE MUSCULOSKELETAL SYSTEM AND CONNECTIVE TISSUE	120	32	88	111	29	82	9	3	6
710-719	ARTHROPATHIES AND RELATED DISORDERS	74	11	63	68	10	58	6	1	5
710	DIFFUSE DISEASES OF CONNECTIVE TISSUE	37	6	31	32	5	27	5	1	4
711	ARTHROPATHY ASSOCIATED WITH INFECTIONS	1	0	1	0	0	0	1	0	1
714	RHEUMATOID ARTHRITIS AND OTHER INFLAMMATORY POLYARTHROPATHIES	24	4	20	24	4	20	0	0	0
715	OSTEOARTHRITIS AND ALLIED DISORDERS	8	0	8	8	0	8	0	0	0
716	OTHER AND UNSPECIFIED ARTHROPATHIES	2	1	1	2	1	1	0	0	0
719	OTHER AND UNSPECIFIED DISORDER OF JOINT	2	0	2	2	0	2	0	0	0
720-724	DORSOPATHIES	6	2	4	6	2	4	0	0	0
721	SPONDYLOSIS AND ALLIED DISORDERS	5	1	4	5	1	4	0	0	0
722	INTERVERTEBRAL DISC DISORDERS	1	1	0	1	1	0	0	0	0
725-729	RHEUMATISM, EXCLUDING THE BACK	9	5	4	8	5	3	1	0	1
726	PERIPHERAL ENTHESOPATHIES AND ALLIED SYNDROMES	1	1	0	1	1	0	0	0	0
728	DISORDERS OF MUSCLE, LIGAMENT AND FASCIA	4	1	3	4	1	3	0	0	0
729	OTHER DISORDERS OF SOFT TISSUES	4	3	1	3	3	0	1	0	1
730-739	OSTEOPATHIES CHRONOPATHIES & ACQUIRED MUSCULOSKELETAL DEFORMITIES	31	14	17	29	12	17	2	2	0
730	OSTEOMYELITIS, PERIOSTITIS AND OTHER INFECTIONS INVOLVING BONE	15	10	5	14	9	5	1	1	0
731	OSTEITIS DEFORMANS AND OSTEOPATHIES ASSOCIATED WITH OTHER DISORDERS CLASSIFIED ELSEWHERE	2	0	2	2	0	2	0	0	0
732	OSTEOCHONDROPATHIES	1	0	1	1	0	1	0	0	0
733	OTHER DISORDERS OF BONE AND CARTILAGE	6	0	6	6	0	6	0	0	0
737	CURVATURE OF SPINE	7	4	3	6	3	3	1	1	0

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ICD, LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
740 759	XIV. CONGENITAL ANOMALIES	253	127	126	231	113	118	22	1	0
740	ANENCEPHALUS AND SIMILAR ANOMALIES	9	4	5	9	4	5	0	0	0
741	SPINA BIFIDA	1	0	1	1	0	1	0	0	0
742	OTHER CONGENITAL ANOMALIES OF NERVOUS SYSTEM	24	12	12	21	11	10	3	1	2
745	BULBUS CORDIS ANOMALIES AND ANOMALIES OF CARDIAC SEPTAL CLOSURE	34	16	18	33	16	17	1	0	1
746	OTHER CONGENITAL ANOMALIES OF HEART	53	27	26	40	23	25	8	4	1
747	OTHER CONGENITAL ANOMALIES OF CIRCULATORY SYSTEM	32	14	18	29	12	17	3	2	1
748	CONGENITAL ANOMALIES OF RESPIRATORY SYSTEM	27	17	10	25	15	10	2	2	0
751	OTHER CONGENITAL ANOMALIES OF DIGESTIVE SYSTEM	4	2	2	3	2	1	1	0	1
753	CONGENITAL ANOMALIES OF URINARY SYSTEM	11	8	3	10	7	3	1	1	0
755	OTHER CONGENITAL ANOMALIES OF LIMBS	2	0	2	2	0	2	0	0	0
756	OTHER CONGENITAL MUSCULOSKELETAL ANOMALIES	17	7	10	15	6	9	2	1	1
757	CONGENITAL ANOMALIES OF THE INTEGUMENT	1	1	0	1	1	0	0	0	0
758	CHROMOSOMAL ANOMALIES	24	12	12	21	10	11	3	2	1
759	OTHER AND UNSPECIFIED CONGENITAL ANOMALIES	14	7	7	13	6	7	1	1	0
760 779	XV. CERTAIN CONDITIONS ORIGINATING IN PERINATAL PERIOD	357	191	166	269	147	122	87	43	44
760	FETUS OR NEWBORN AFFECTED BY MATERNAL CONDITIONS WHICH MAY BE UNRELATED TO PRESENT PREGNANCY	6	1	5	5	1	4	1	0	1
761	FETUS OR NEWBORN AFFECTED BY MATERNAL COMPLICATIONS OF PREGNANCY	24	10	14	14	6	10	8	4	4
762	FETUS OR NEWBORN AFFECTED BY COMPLICATIONS OF PLACENTA CORD AND MEMBRANES	20	11	9	14	8	6	5	2	3
765	DISORDERS RELATING TO SHORT GESTATION AND UNSPECIFIED LOW BIRTHWEIGHT	58	25	33	41	15	26	17	10	7
767	BIRTH TRAUMA	1	1	0	1	1	0	0	0	0
768	INTRAUTERINE HYPOXIA AND BIRTH ASPHYXIA	18	11	7	14	9	7	2	2	0
769	RESPIRATORY DISTRESS SYNDROME	39	26	13	33	22	11	4	4	2
770	OTHER RESPIRATORY CONDITIONS OF FETUS AND NEWBORN	86	52	34	63	43	20	23	9	14
771	INFECTIONS SPECIFIC TO THE PERINATAL PERIOD	19	12	7	15	10	5	4	2	2
772	FETAL AND NEONATAL HAEMORRHAGE	12	7	5	6	3	3	6	4	2
775	ENDOCRINE AND METABOLIC DISTURBANCES SPECIFIC TO THE FETUS AND NEWBORN	2	0	2	2	0	2	0	0	0
776	HAEMATOLOGICAL DISORDERS OF FETUS AND NEWBORN	1	0	1	1	0	1	0	0	0
777	PERINATAL DISORDERS OF DIGESTIVE SYSTEM	12	5	7	7	3	4	5	2	3
778	CONDITIONS INVOLVING THE INTEGUMENT AND TEMPERATURE REGULATION OF FETUS AND NEWBORN	3	2	1	3	2	1	0	0	0
779	OTHER AND ILL-DEFINED CONDITIONS ORIGINATING IN THE PERINATAL PERIOD	54	28	26	44	24	22	19	4	4

TABLE C-15 (CONTINUED)

1986

ICD. LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
*780-799	XVI. SYMPTOMS, SIGNS, AND ILL-DEFINED CONDITIONS	329	168	161	297	150	147	31	17	14
780-789	SYMPTOMS	55	21	34	49	18	31	6	3	3
780	GENERAL SYMPTOMS	17	10	7	13	8	5	4	2	2
781	SYMPTOMS INVOLVING NERVOUS AND MUSCULOSKELETAL SYSTEMS	1	1	0	1	1	0	0	0	0
785	SYMPTOMS INVOLVING CARDIOVASCULAR SYSTEM	27	6	21	26	6	20	1	0	1
786	SYMPTOMS INVOLVING RESPIRATORY SYSTEM AND OTHER CHEST SYMPTOM	7	4	3	6	3	3	1	1	0
789	OTHER SYMPTOMS INVOLVING ABDOMEN AND PELVIS	3	0	3	3	0	3	0	0	0
797-799	ILL-DEFINED AND UNKNOWN CAUSES OF MORBIDITY AND MORTALITY	274	147	127	248	132	116	25	14	11
797	SENILITY WITHOUT MENTION OF PSYCHOSIS	11	4	7	11	4	7	0	0	0
798	SUDDEN DEATH, CAUSE UNKNOWN	83	45	38	67	37	30	16	8	8
799	OTHER ILL-DEFINED AND UNKNOWN CAUSES OF MORBIDITY AND MORTALITY	180	98	82	170	91	79	9	6	3
*800-999	XVII. EXTERNAL CAUSES OF INJURY AND POISONING	2789	1893	896	2576	1736	840	210	155	55
800-807	RAILWAY ACCIDENTS	5	3	2	4	3	1	1	0	1
804	FALL IN, ON OR FROM RAILWAY TRAIN	1	0	1	1	0	1	0	0	0
805	HIT BY ROLLING STOCK	4	3	1	3	3	0	1	0	1
810-819	MOTOR VEHICLE TRAFFIC ACCIDENTS	806	577	229	768	551	217	37	25	12
810	INVOLVING COLLISION WITH TRAIN	2	2	0	2	2	0	0	0	0
812	OTHER ACCIDENT INVOLVING COLLISION WITH ANOTHER MOTOR VEHICLE	268	177	91	253	168	85	15	9	6
813	INVOLVING COLLISION WITH OTHER VEHICLE	15	14	1	15	14	1	0	0	0
814	INVOLVING COLLISION WITH PEDESTRIAN	183	124	59	174	118	56	9	6	3
815	OTHER ACCIDENT INVOLVING COLLISION ON THE HIGHWAY	221	173	48	213	165	48	7	7	0
816	DUE TO LOSS OF CONTROL, WITHOUT COLLISION ON THE HIGHWAY	67	51	16	65	50	15	2	1	1
817	NONCOLLISION ACCIDENT WHILE BOARDING OR ALIGHTING	2	1	1	2	1	1	0	0	0
818	OTHER NONCOLLISION MOTOR VEHICLE TRAFFIC ACCIDENT	22	19	3	22	19	3	0	0	0
819	OF UNSPECIFIED NATURE	26	16	10	22	14	8	4	2	2
820-825	MOTOR VEHICLE NONTRAFFIC ACCIDENTS	10	7	3	10	7	3	0	0	0
821	INVOLVING OTHER OFF-ROAD MOTOR VEHICLE	4	4	0	4	4	0	0	0	0
822	OTHER ACCIDENT INVOLVING COLLISION WITH MOVING OBJECT	5	3	2	5	3	2	0	0	0
825	OTHER ACCIDENT OF OTHER AND UNSPECIFIED NATURE	1	0	1	1	0	1	0	0	0
826-829	OTHER ROAD VEHICLE ACCIDENTS	5	1	4	5	1	4	0	0	0
826	PEDAL CYCLE ACCIDENT	3	1	2	3	1	2	0	0	0
828	ACCIDENT INVOLVING ANIMAL BEING RIDDEN	2	0	2	2	0	2	0	0	0
830-838	WATER TRANSPORT ACCIDENTS	10	9	1	8	7	1	2	2	0
830	ACCIDENT TO WATERCRAFT CAUSING SUBMERSION	5	5	0	4	4	0	1	1	0
831	ACCIDENT TO WATERCRAFT CAUSING OTHER INJURY	1	1	0	1	1	0	0	0	0
832	OTHER ACCIDENTAL SUBMERSION OR DROWNING IN WATER TRANSPORT ACCIDENT	4	3	1	3	2	1	1	1	0
840-845	AIR AND SPACE TRANSPORT ACCIDENTS	13	11	2	13	11	2	0	0	0
841	ACCIDENT TO POWERED AIRCRAFT, OTHER AND UNSPECIFIED	12	10	2	12	10	2	0	0	0
843	FALL IN, ON OR FROM AIRCRAFT	1	1	0	1	1	0	0	0	0
850-858	ACCIDENTAL POISONING BY DRUGS AND MEDICAMENTS	63	45	18	63	45	18	0	0	0

TABLE C-15

1986

ICD, LIST NUMBER	CAUSE OF DEATH	TOTALS			WHITE			NON-WHITE		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
	XVII. EXTERNAL CAUSES OF INJURY AND POISONING									
	(CONTINUED)									
850	BY ANALGESICS, ANTIPYRETIC, ANTIRHEUMATICS	12	9	3	12	9	3	0	0	0
851	BY BARBITURATES	1	0	1	1	0	1	0	0	0
852	BY OTHER SEDATIVES AND HYPNOTICS	1	1	0	1	1	0	0	0	0
853	BY TRANQUILLIZERS	4	2	2	4	2	2	0	0	0
854	BY OTHER PSYCHOTROPIC AGENTS	1	1	0	1	1	0	0	0	0
855	BY OTHER DRUGS ACTING ON CENTRAL AND AUTONOMIC NERVOUS SYSTEMS	9	8	1	9	8	1	0	0	0
856	BY ANTIBIOTICS	1	1	0	1	1	0	0	0	0
858	BY OTHER DRUGS	34	23	11	34	23	11	0	0	0
860-869	ACCIDENTAL POISONING BY OTHER SUBSTANCES	25	16	9	22	14	8	3	2	1
	GASES AND VAPOURS									
860	BY ALCOHOL, NOT ELSEWHERE CLASSIFIED	4	2	2	4	2	2	0	0	0
868	BY OTHER UTILITY GAS AND OTHER CARBON MONOXIDE	20	14	6	17	12	5	3	2	1
869	BY OTHER GASES AND VAPOURS	1	0	1	1	0	1	0	0	0
870-876	MISADVENTURE TO PATIENTS DURING SURGICAL AND MEDICAL CARE	2	2	0	2	2	0	0	0	0
870	ACCIDENTAL CUT, PUNCTURE, PERFORATION OR HAEMORRHAGE DURING MEDICAL CARE	2	2	0	2	2	0	0	0	0
878-879	SURGICAL & MEDICAL PROCEDURES AS CAUSE OF LATER COMPLICATION	75	28	47	73	27	46	2	1	1
878	SURGICAL OPERATION/OTHER PROCEDURES AS CAUSE OF ABNORMAL REACTION/LATER COMPLICATION W/O MENTION AT TIME OF OPERATION	61	26	35	60	25	35	1	1	0
879	OTHER PROCEDURES W/O MENTION AT TIME, AS CAUSE OF ABNORMAL REACTION OR LATER COMPLICATION	14	2	12	13	2	11	1	0	1
880-886	ACCIDENTAL FALLS	381	196	185	372	189	183	7	6	1
880	FALL ON OR FROM STAIRS OR STEPS	62	33	29	61	33	28	1	0	1
881	FALL ON OR FROM LADDERS OR SCAFFOLDING	14	14	0	14	14	0	0	0	0
882	FALL FROM OR OUT OF BUILDING OR OTHER STRUCTURE	16	13	3	14	11	3	1	1	0
883	FALL INTO HOLE OR OTHER OPENING IN SURFACE	4	4	0	3	3	0	1	1	0
884	OTHER FALL FROM ONE LEVEL TO ANOTHER	19	10	9	17	9	8	1	1	0
885	FALL ON SAME LEVEL FROM SLIPPING, TRIPPING OR STUMBLING	15	8	7	15	8	7	0	0	0
887	FRACTURE, CAUSE UNSPECIFIED	119	53	66	119	53	66	0	0	0
888	OTHER AND UNSPECIFIED FALL	132	61	71	129	58	71	3	3	0
890-899	ACCIDENTS CAUSED BY FIRES AND FLAMES	69	34	35	55	28	27	14	6	8
890	CONFLAGRATION IN PRIVATE DWELLING	60	29	31	46	23	23	14	6	8
891	CONFLAGRATION IN OTHER AND UNSPECIFIED BUILDING OR STRUCTURE	2	1	1	2	1	1	0	0	0
893	ACCIDENT CAUSED BY IGNITION OF CLOTHING	4	2	2	4	2	2	0	0	0
896	ACCIDENT CAUSED BY CONTROLLED FIRE IN OTHER AND UNSPECIFIED BUILDING OR STRUCTURE	1	1	0	1	1	0	0	0	0
898	ACCIDENT CAUSED BY OTHER SPECIFIED FIRE AND FLAMES	1	1	0	1	1	0	0	0	0
899	ACCIDENT CAUSED BY UNSPECIFIED FIRE	1	0	1	1	0	1	0	0	0
900-909	ACCIDENTS CAUSED BY NATURAL AND ENVIRONMENTAL FACTORS	23	18	7	23	17	6	2	1	1
900	EXCESSIVE HEAT	1	1	0	1	1	0	0	0	0

TABLE C-15 (CONTINUED)

1986

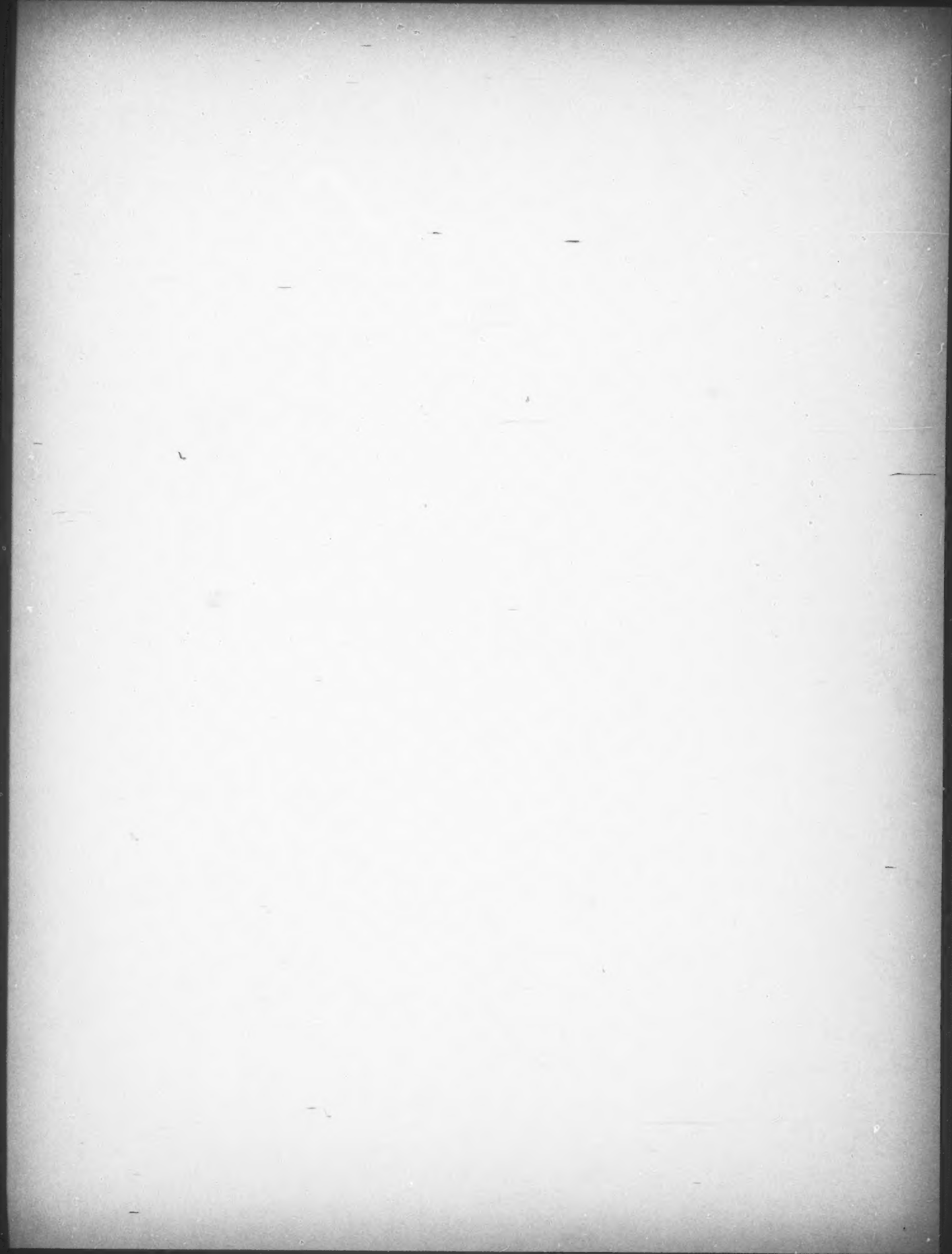
ICD. LIST NUMBER	CAUSE OF DEATH	T O T A L S			W H I T E			N O N - W H I T E		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
	XVII. EXTERNAL CAUSES OF INJURY AND POISONING									
	(CONTINUED)									
901	EXCESSIVE COLD	13	9	4	11	8	3	2	1	1
904	HUNGER, THIRST, EXPOSURE, NEGLECT	7	5	2	7	5	2	0	0	0
905	VENOMOUS ANIMALS AND PLANTS AS THE CAUSE OF POISONING AND TOXIC REACTIONS	1	0	1	1	0	1	0	0	0
907	LIGHTNING	1	1	0	1	1	0	0	0	0
908	CATAclySMIC STORMS, AND FLOODS RESULTING FROM STORMS	1	1	0	1	1	0	0	0	0
909	CATAclySMIC EARTH SURFACE MOVEMENTS AND ERUPTIONS	1	1	0	1	1	0	0	0	0
910-915	ACCIDENTS CAUSED BY SUBMERSION	221	152	69	211	142	69	10	10	0
	SUFFOCATION & FOREIGN BODIES									
910	ACCIDENTAL DROWNING AND SUBMERSION	64	48	16	60	44	16	4	4	0
911	INHALATION AND INGESTION OF FOOD CAUSING OBSTRUCTION OF RESPIRATORY TRACT OR SUFFOCATION	42	25	17	41	24	17	1	1	0
912	INHALATION AND INGESTION OF OTHER OBJECT CAUSING OBSTRUCTION OF RESPIRATORY TRACT OR SUFFOCATION	93	59	34	89	55	34	4	4	0
913	ACCIDENTAL MECHANICAL SUFFOCATION	22	20	2	21	19	2	1	1	0
916-928	OTHER ACCIDENTS	126	93	33	121	88	33	5	5	0
916	STRUCK ACCIDENTALLY BY FALLING OBJECT	12	12	0	10	10	0	2	2	0
917	STRIKING AGAINST OR STRUCK ACCIDENTALLY BY OBJECTS OR OR PERSON	7	5	2	7	5	2	0	0	0
919	ACCIDENTS CAUSED BY MACHINERY	7	7	0	7	7	0	0	0	0
920	ACCIDENTS CAUSED BY CUTTING AND PIERCING INSTRUMENTS OR OBJECT	2	2	0	2	2	0	0	0	0
922	ACCIDENT CAUSED BY FIREARM MISSILE	20	20	0	19	19	0	1	1	0
923	ACCIDENT CAUSED BY EXPLOSIVE MATERIAL	4	4	0	4	4	0	0	0	0
924	ACCIDENT CAUSED BY HOT SUBSTANCE OR OBJECT, CAUSTIC OR CORROSION MATERIAL AND STEAM	4	3	1	4	3	1	0	0	0
925	ACCIDENT CAUSED BY ELECTRIC CURRENT	10	9	1	10	9	1	0	0	0
928	OTHER AND UNSPECIFIED ENVIRONMENTAL AND ACCIDENTAL CAUSES	60	31	29	58	29	29	2	2	0
929-929	LATE EFFECTS OF ACCIDENTAL INJURY	16	9	7	16	9	7	0	0	0
929	LATE EFFECTS OF ACCIDENTAL INJURY	16	9	7	16	9	7	0	0	0
930-949	DRUGS MEDICAMENTS AND BIOLOGICAL SUBSTANCES IN THERAPY	5	3	2	5	3	2	0	0	0
932	HORMONES AND SYNTHETIC SUBSTITUTES	1	1	0	1	1	0	0	0	0
935	ANALGESICS, ANTIPYRETICS AND ANTIRHEUMATICS	1	0	1	1	0	1	0	0	0
947	OTHER AND UNSPECIFIED DRUGS AND MEDICAMENTS	3	2	1	3	2	1	0	0	0
950-959	SUICIDE AND SELF-INFLECTED INJURY	543	408	135	515	386	129	28	22	6
950	BY SOLID OR LIQUID SUBSTANCES	79	32	47	78	31	47	1	1	0
952	BY OTHER GASES AND VAPOURS	65	51	14	64	50	14	1	1	0
953	BY HANGING, STRANGULATION AND SUFFOCATION	194	157	37	183	149	34	11	8	3
954	BY SUBMERSION (DROWNING)	15	6	9	13	6	7	2	0	2
955	BY FIREARMS AND EXPLOSIVES	148	135	13	139	126	13	9	9	0
956	BY CUTTING AND PIERCING INSTRUMENTS	15	11	4	14	10	4	1	1	0
957	BY JUMPING FROM HIGH PLACE	20	12	8	18	11	7	2	1	1
958	BY OTHER AND UNSPECIFIED MEANS	7	4	3	6	3	3	1	1	0
960-969	HOMICIDE AND INJURY PURPOSELY INFLICTED BY OTHER PERSONS	218	156	62	146	100	46	72	56	16
963	ASSAULT BY HANGING AND STRANGULATION	27	8	19	22	7	15	5	1	4

TABLE C-15

1986

ICD. LIST NUMBER	CAUSE OF DEATH	T O T A L S			W H I T E			N O N - W H I T E		
		TOT	MALE	FEM	TOT	MALE	FEM	TOT	MALE	FEM
	XVII. EXTERNAL CAUSES OF INJURY AND POISONING (CONTINUED)									
964	ASSAULT BY SUBMERSION (DROWNING)	1	1	0	1	1	0	0	0	0
965	ASSAULT BY FIREARMS AND EXPLOSIVES	93	76	17	57	48	9	36	28	8
966	ASSAULT BY CUTTING AND PIERCING INSTRUMENT	51	38	13	31	20	11	20	18	2
968	ASSAULT BY OTHER AND UNSPECIFIED MEANS	43	30	13	33	22	11	10	8	2
969	LATE EFFECTS OF INJURY PURPOSELY INFLICTED BY OTHER PERSON	3	3	0	2	2	0	1	1	0
970-978	LEGAL INTERVENTION	4	4	0	3	3	0	1	1	0
970	BY FIREARMS	4	4	0	3	3	0	1	1	0
980-989	INJURY UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	166	120	46	140	102	38	26	18	8
980	POISONING BY SOLID OR LIQUID SUBSTANCES, UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	126	89	37	104	73	31	22	16	6
982	POISONING BY OTHER GASES, UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	3	2	1	3	2	1	0	0	0
983	HANGING, STRANGULATION OR SUFFOCATION, UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	2	2	0	2	2	0	0	0	0
984	SUBMERSION (DROWNING), UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	4	3	1	4	3	1	0	0	0
985	INJURY BY FIREARMS AND EXPLOSIVES, UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	3	3	0	3	3	0	0	0	0
987	FALLING FROM HIGH PLACE, UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	5	4	1	5	4	1	0	0	0
988	INJURY BY OTHER AND UNSPECIFIED MEANS, UNDETERMINED WHETHER ACCIDENTALLY OR PURPOSELY INFLICTED	23	17	6	19	15	4	4	2	2
990-999	INJURY RESULTING FROM OPERATIONS OF WAR	1	1	0	1	1	0	0	0	0
999	LATE EFFECTS OF INJURY DUE TO WAR OPERATIONS	1	1	0	1	1	0	0	0	0
***	RESIDENT GRAND TOTALS	55860	27114	28746	53903	26029	27874	19421	1076	866

TOTALS INCLUDE 15 OF UNKNOWN RACE: 9 MALES AND 6 FEMALES.



NEONATAL AND INFANT DEATHS



SECTION D

NEONATAL AND INFANT DEATHS

Resident infant deaths (deaths less than 1 year of age) decreased in Massachusetts from 745 in 1985 to 695 in 1986, a decrease of 6.7%. The rate of infant deaths also decreased from 9.1 per 1,000 live births in 1985 to 8.4 in 1986. As with live births and deaths, all Massachusetts resident infant deaths are included regardless of the state in which they occurred. Neonatal deaths (deaths under 28 days of age) also decreased from 538 in 1985 to 478 in 1986, a decrease of 11.2%. The rate of neonatal deaths per 1,000 live births showed a decrease from 6.6 in 1985 to 5.8 in 1986.

INFANT DEATHS BY RACE

The rate of infant and neonatal deaths for non-whites decreased from 1985 to 1986, although the actual number of neonatal deaths increased slightly. This is illustrated in the table below:

NONWHITE	1985	1986
INFANT DEATHS		
NUMBER	137	134
RATE	16.9	14.9
NEONATAL DEATHS		
NUMBER	91	94
RATE	11.3	10.4

The decrease in infant deaths in 1986 occurred within both the white and the non-white populations.

INFANT DEATHS BY AGE

Overall, 43.7% of infant deaths occurred within the first 24 hours and 58.1% within the first week of life. These percentages remain relatively stable by race.

INFANT DEATHS BY CAUSE

The cause of infant deaths did not vary from 1985 to 1986. The leading cause of death was "Certain Conditions Originating in the Perinatal Period" which accounted for 50.5% of infant deaths and congenital anomalies for 23.6%. Cause of death information in this report is based on underlying cause of death rather than conditions listed on the record. The coding of cause of death on infant deaths is completed in the same manner as that of deaths to older individuals.

NEONATAL MORTALITY BY BIRTHWEIGHT

Neonatal mortality is strongly related to birthweight. Low birthweight babies (under 2,500 grams or 5 pounds, 8 ounces) accounted for 5.6% of all babies born in Massachusetts in 1986. However, neonatal deaths

matched to birth records with a reported birthweight showed that 74.9% of the deaths were to babies of low birthweight.

HEALTH OBJECTIVES FOR 1990

The U.S. Department of Health and Human Services has developed health objectives for 1990 in numerous areas (HEALTHY PEOPLE: Surgeon General's Report on Health Promotion and Disease Prevention; 1979). 1986 is a good place to assess where Massachusetts stands on the objectives regarding infant mortality.

1990 OBJECTIVE:

Infant mortality rate should not exceed nine deaths per 1,000 live births.

Neonatal mortality rate should not exceed 6.5 deaths per 1,000 live births.

No racial or ethnic group of the population should have an infant mortality rate in excess of 12 deaths per 1,000 live births.

MASSACHUSETTS—1986:

There were 8.4 deaths per 1,000 live births.

In 1986, the Massachusetts rate was 5.8 per 1,000 live births.

The non-white infant mortality rate was 14.9 in 1986.

DEFINITIONS AND RATES IMPORTANT FOR THIS SECTION INCLUDE:

INFANT DEATH	Death of a person whose age is less than one year.
NEONATAL DEATH	Death of a person whose age is less than 28 days.
FETAL DEATH	A fetal death is a death prior to the complete expulsion or extraction from its mother of a product of conception, irrespective of the duration of the pregnancy; the death is indicated by the fact that after such separation the fetus does not breathe or show any other evidence of life, such as the beating of the heart, pulsation of the umbilical cord, or definite movement of the voluntary muscles.

Massachusetts law requires that fetal deaths of 20 or more weeks gestation or of a weight of at least 350 grams be reported; therefore the fetal deaths referred to in this report are of that gestational age or weight.

INFANT MORTALITY
RATE

No. of Resident Deaths
at Less Than 1 Year of Age x 1,000
Total Live Births

NEONATAL MORTALITY
RATE

No. of Resident Deaths
at Less Than 28 Days of Age x 1,000
Total Live Births



FIGURE D - 1
 NEONATAL AND INFANT DEATH RATES
 MASSACHUSETTS AND UNITED STATES
 1970 - 1986

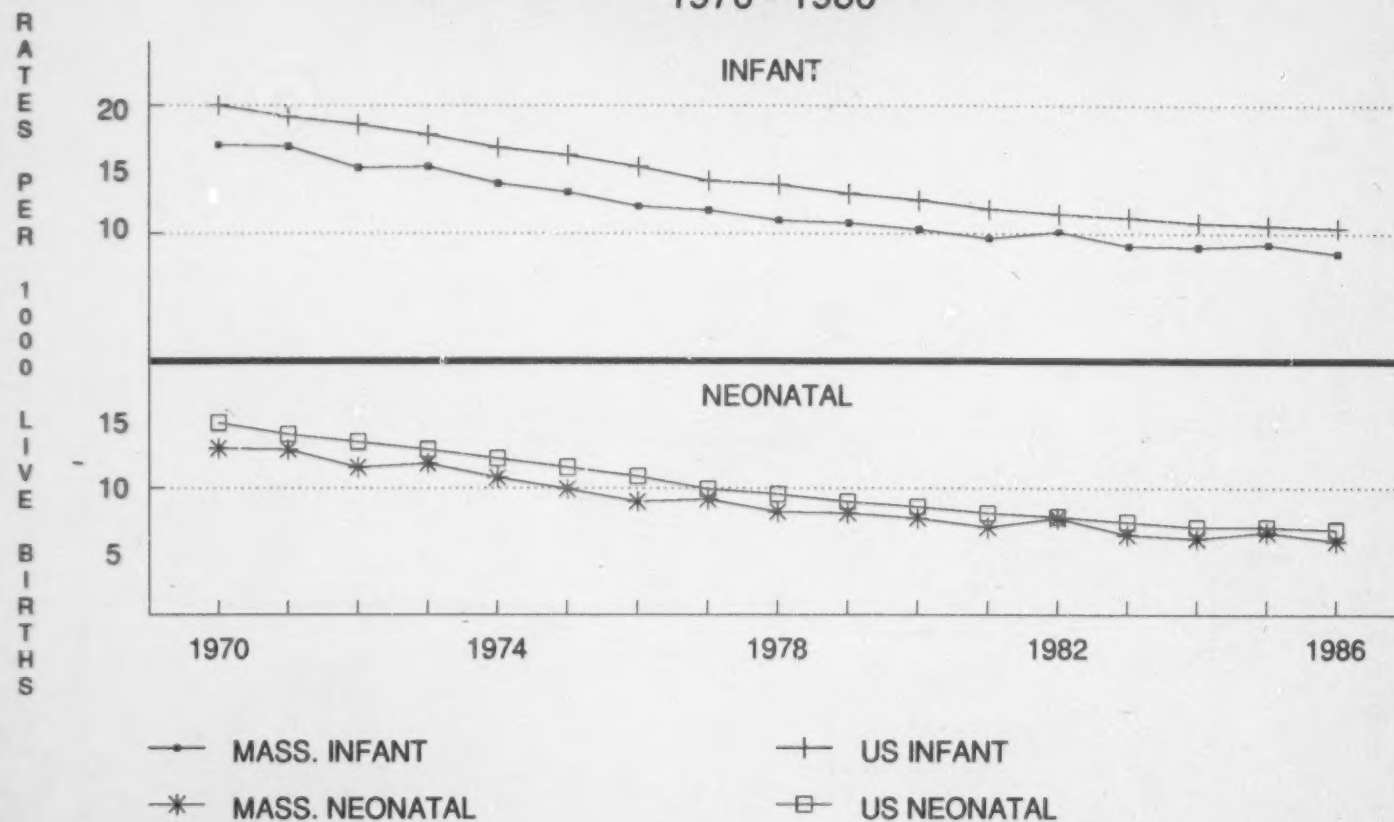


TABLE D-1
RESIDENT INFANT AND NEONATAL DEATHS, MASSACHUSETTS AND UNITED STATES
1970-1986

		DEATHS UNDER ONE YEAR		DEATHS UNDER 28 DAYS		
YEAR	MASS. NUMBER	PER 1,000 LIVE BIRTHS		MASS. NUMBER	PER 1,000 LIVE BIRTHS	
		MASS.	U.S.		MASS.	U.S.
1970	1,583	16.9	20.0	1,231	13.1	15.1
1971	1,462	16.8	19.1	1,130	13.0	14.2
1972	1,164	15.1	18.5	896	11.6	13.6
1973	1,104	15.2	17.7	861	11.9	13.0
1974	976	13.9	16.7	763	10.8	12.3
1975	903	13.2	16.1	678	9.9	11.6
1976	799	12.1	15.2	585	8.9	10.9
1977	806	11.8	14.1	616	9.1	9.9
1978	753	11.0	13.8	552	8.1	9.5
1979	760	10.8	13.1	564	8.0	8.9
1980	748	10.3	12.6	550	7.6	8.5
1981	710	9.6	11.9	510	6.9	8.0
1982	764	10.1	11.5	573	7.6	7.7
1983	682	9.0	11.2	482	6.3	7.3
1984	699	8.9	10.8	472	6.0	6.9
1985	745	9.1	10.6	538	6.6	7.0
1986	695	8.4	10.4	478	5.8	6.7

FIGURE D - 2

NEONATAL AND INFANT DEATH RATES BY RACE MASSACHUSETTS RESIDENT DEATHS 1975 - 1986

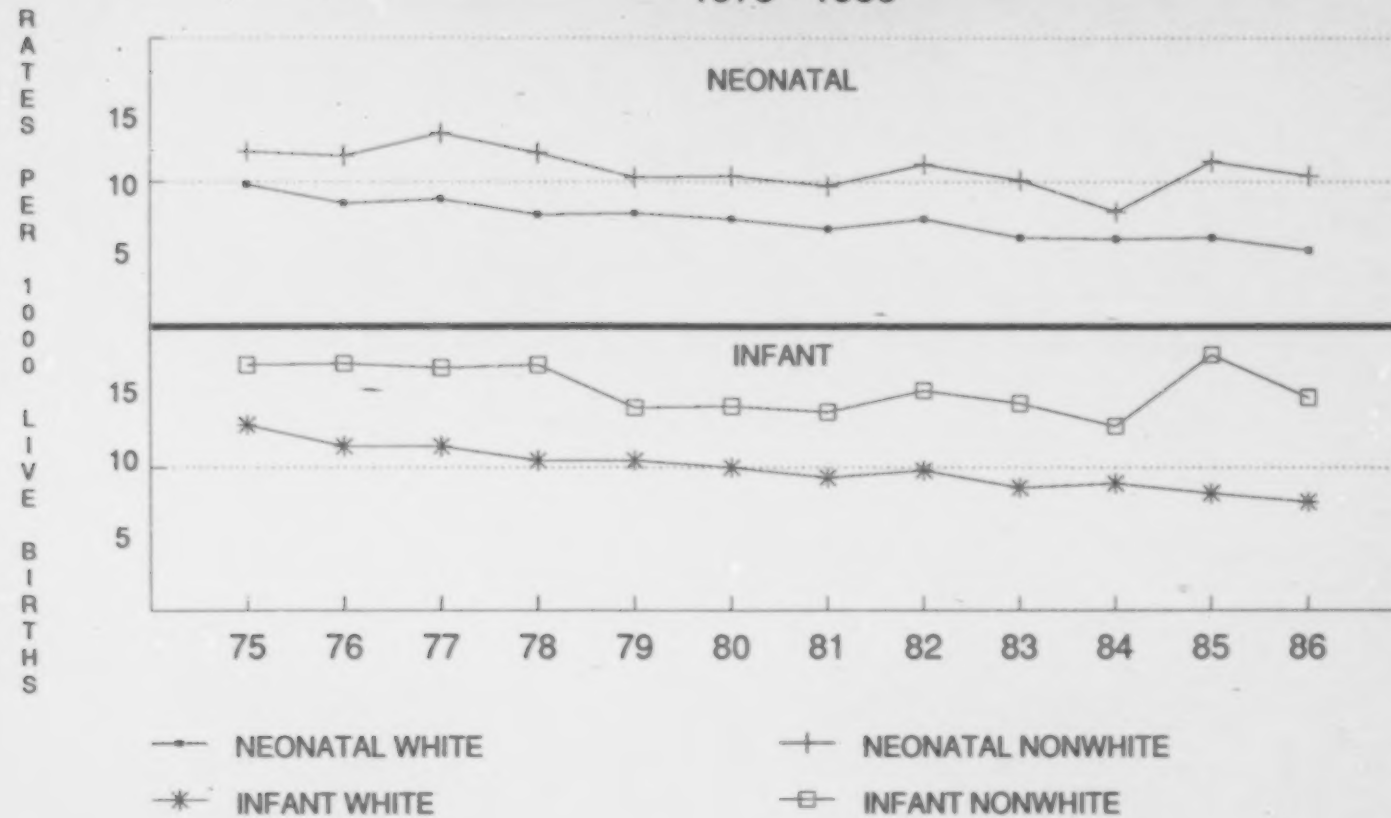


TABLE D-2
INFANT AND NEONATAL DEATHS BY AGE, SEX AND RACE, MASSACHUSETTS RESIDENTS
1986

	- TOTAL -			- WHITE -			- NON-WHITE -		
	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE	TOTAL	MALE	FEMALE
TOTAL LESS THAN 1 YEAR* RATE	695 8.4	375 8.9	320 8.0	560 7.6	306 8.1	254 7.1	134 14.9	68 15.2	66 14.7
LESS THAN 1 DAY*	304	157	147	238	121	117	65	35	30
1 DAY	43	28	15	36	25	11	7	3	4
2 DAYS	24	7	17	18	4	14	6	3	3
3 DAYS	8	5	3	6	5	1	2	0	2
4 DAYS	10	3	7	10	3	7	0	0	0
5 DAYS	11	7	4	10	6	4	1	1	0
6 DAYS	4	3	1	2	2	0	2	1	1
LESS THAN 1 WEEK*	404	210	194	320	166	154	83	43	40
7-13 DAYS	40	24	16	34	22	12	6	2	4
14-27 DAYS	34	18	16	29	14	15	5	4	1
LESS THAN 28 DAYS* RATE	478 5.8	252 6.0	226 5.6	385 5.2	202 5.4	181 5.1	94 10.4	49 11.0	45 10.0
1 MONTH	45	19	26	36	17	19	9	2	7
2 MONTHS	52	24	28	40	21	19	12	3	9
3 MONTHS	33	21	12	26	15	11	7	6	1
4 MONTHS	22	16	6	17	14	3	5	2	3
5 MONTHS	17	10	7	14	7	7	3	3	0
6 MONTHS	10	8	2	9	7	2	1	1	0
7 MONTHS	14	12	2	13	11	2	1	1	0
8 MONTHS	9	3	6	8	3	5	1	0	1
9 MONTHS	6	4	2	6	4	2	0	0	0
10 MONTHS	5	3	2	4	2	2	1	1	0
11 MONTHS	4	3	1	4	3	1	0	0	0

*THE TOTAL INCLUDES ONE OF UNKNOWN SEX. IN CALCULATING THE INFANT MORTALITY RATE BY RACE, BIRTHS OF UNKNOWN RACE HAVE BEEN ALLOCATED TO WHITE AND NON-WHITE BASED ON THEIR PERCENTAGES AND TOTAL BIRTHS.

FIGURE D-3
NEONATAL DEATHS BY MEAN BIRTHWEIGHT
1970-1986

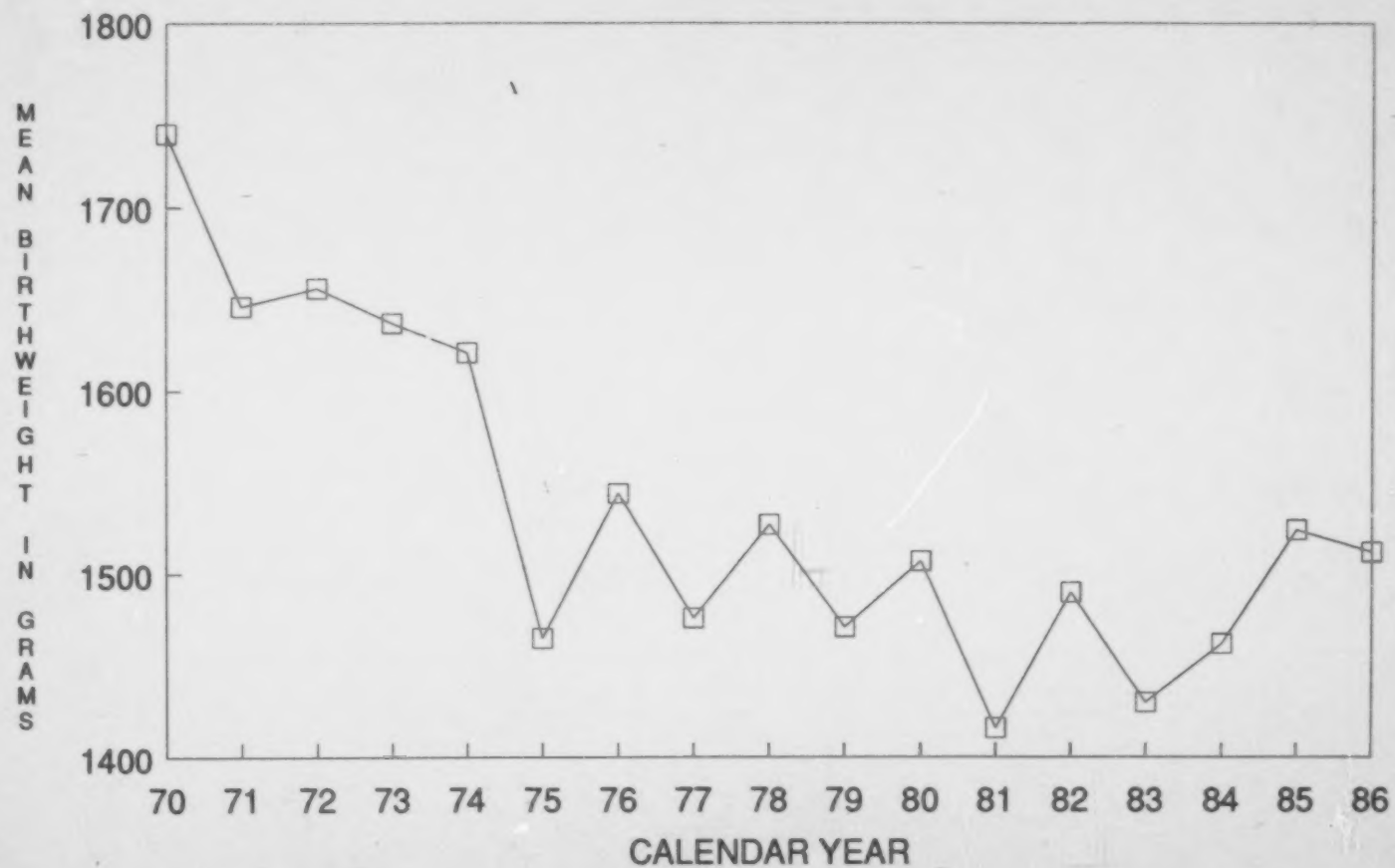


TABLE D-3
NEONATAL AND INFANT DEATHS BY CAUSE, AGE AND SEX, MASSACHUSETTS RESIDENTS
1966

	SEX	TOTAL	- NEONATAL AGE -			- POST NEONATAL AGE -			
			<1 DAY	1-6 DAYS	7-27 DAYS	1-3 MOS	4-6 MOS	7-9 MOS	10-11 MOS
TOTAL	M	374	156	93	42	64	34	19	6
	F	320	147	47	32	66	15	10	3
	U	1	1	0	0	0	0	0	0
	T N	695	304	100	74	130	49	29	9
	\$	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
DISEASES OF THE NERVOUS SYSTEM & SENSE ORGANS (320-329)	M	5	0	1	0	0	2	2	0
	F	2	0	0	0	0	0	2	0
	T N	7	0	1	0	0	2	4	0
	\$	1.0	0.0	1.0	0.0	0.0	4.1	13.8	0.0
DISEASES OF THE CIRCULATORY SYSTEM (390-459)	M	16	1	1	2	5	5	2	0
	F	6	0	1	1	3	0	0	1
	T N	22	1	2	3	8	5	2	1
	\$	3.2	0.3	2.0	4.1	6.2	10.2	6.9	11.1
DISEASES OF THE RESPIRATORY SYSTEM (460-519)	M	8	0	0	0	4	3	1	0
	F	4	0	0	0	2	2	0	0
	T N	12	0	0	0	6	5	1	0
	\$	1.7	0.0	0.0	0.0	4.6	10.2	3.4	0.0
DISEASES OF THE DIGESTIVE SYSTEM (520-579)	M	6	0	1	0	3	1	1	0
	F	2	0	0	0	0	1	1	0
	T N	8	0	1	0	3	2	2	0
	\$	1.2	0.0	1.0	0.0	2.3	4.1	6.9	0.0
CONGENITAL ANOMALIES (740-759)									
Of nervous system (740-742)	M	10	3	1	1	2	2	1	0
	F	15	7	1	2	3	1	1	0
	T	25	10	2	3	5	3	2	0
Of heart and cir- culatory system (745-747)	M	26	4	9	6	3	1	3	0
	F	31	2	11	4	7	3	2	2
	T	57	6	20	10	10	4	5	2
Of respiratory system (748)	M	17	11	4	0	1	1	0	0
	F	10	5	3	2	0	0	0	0
	T	27	16	7	2	1	1	0	0
Chromosomal anomalies (750)	M	10	2	3	2	1	1	1	0
	F	6	1	2	2	0	1	0	0
	T	16	3	5	4	1	2	1	0
Other congenital anomalies (749-757, 759)	M	19	11	5	1	1	0	0	1
	F	19	9	7	0	2	1	0	0
	U	1	1	0	0	0	0	0	0
	T N	39	21	12	1	3	1	0	1
TOTAL CONGENITAL ANOMALIES	M	82	31	22	10	8	5	5	1
	F	81	24	24	10	12	6	3	2
	U	1	1	0	0	0	0	0	0
	T N	164	56	46	20	20	11	8	3
	\$	23.6	18.4	46.0	27.0	15.4	22.4	27.6	33.3

TABLE D-3 (continued)
NEONATAL AND INFANT DEATHS BY CAUSE, AGE AND SEX, MASSACHUSETTS RESIDENTS
1986

	SEX	TOTAL	- NEONATAL AGE -			- POST NEONATAL AGE -			
			<1 DAY	1-6 DAYS	7-27 DAYS	1-3 MOS	4-6 MOS	7-9 MOS	10-11 MOS
CERTAIN CONDITIONS ORIGINATING IN PERI- NATAL PERIOD (760-779)									
Maternal conditions (760-763)	M	22	19	2	1	0	0	0	0
	F	28	25	1	2	0	0	0	0
	T	50	44	3	3	0	0	0	0
Disorders relating to short gestation (765)	M	25	25	0	0	0	0	0	0
	F	33	33	0	0	0	0	0	0
	T	58	58	0	0	0	0	0	0
Interuterine hypoxia & birth asphyxia (768)	M	9	2	5	0	1	1	0	0
	F	7	4	1	1	1	0	0	0
	T	16	6	6	1	2	1	0	0
Respiratory distress syndrome (769)	M	26	7	10	7	1	1	0	0
	F	13	6	4	2	1	0	0	0
	T	39	13	14	9	2	1	0	0
Other respiratory infections of newborn (770)	M	52	31	7	4	4	4	1	1
	F	31	22	7	0	2	0	0	0
	T	83	53	14	4	6	4	1	1
Other and ill- defined (767, 771-779)	M	55	36	3	14	2	0	0	0
	F	50	28	8	12	2	0	0	0
	T	105	64	11	26	4	0	0	0
TOTAL OF CERTAIN CON- DITIONS ORIGINATING IN THE PERINATAL PERIOD	M	189	120	27	26	8	6	1	1
	F	162	118	21	17	6	0	0	0
	T N	351	238	48	43	14	6	1	1
	%	50.5	78.3	48.0	58.1	10.8	12.2	3.4	11.1
SUDDEN INFANT DEATH SYNDROME (7980)	M	44	0	0	3	33	7	1	0
	F	38	0	0	2	32	3	1	0
	T N	82	0	0	5	65	10	2	0
	%	11.8	0.0	0.0	6.8	50.0	20.4	6.9	0.0
EXTERNAL CAUSES (800-899)	M	6	0	0	0	1	2	2	1
	F	1	0	0	0	1	0	0	0
	T N	7	0	0	0	2	2	2	1
	%	1.0	0.0	0.0	0.0	1.5	4.1	6.9	11.1
ALL OTHER CAUSES	M	18	4	1	1	2	3	4	3
	F	24	5	1	2	10	3	3	0
	T N	42	9	2	3	12	6	7	3
	%	6.0	3.0	2.0	4.1	9.2	12.2	24.1	33.3

PERCENTS MAY NOT SUM TO 100.0 DUE TO ROUNDING.

TABLE D-4

NEONATAL MORTALITY BY BIRTHWEIGHT*, MASSACHUSETTS RESIDENT BIRTHS

1980 - 1986

ALL BIRTHWEIGHTS		<500 gms	500- 1499 gms	1500- 2499 gms	2500- 4499 gms	4500- 8165 gms	UNKNOWN
1980 DEATHS	539	85	237	73	112	4	28
BIRTHS	72,627	90	650	3,687	66,714	1,398	88
RATE	7.4	944.4	364.6	19.8	1.7	2.9	318.2
1981 DEATHS	467	74	202	56	95	4	36
BIRTHS	73,960	84	666	3,687	67,968	1,474	81
RATE	6.3	881.0	303.3	15.2	1.4	2.7	444.4
1982 DEATHS	567	90	263	69	127	3	15
BIRTHS	75,771	91	752	3,614	69,785	1,461	68
RATE	7.5	989.0	349.7	19.1	1.8	2.0	220.6
1983 DEATHS	484	90	210	53	103	3	25
BIRTHS	76,080	96	709	3,688	69,906	1,594	87
RATE	6.4	937.5	296.2	14.4	1.5	1.9	287.4
1984 DEATHS	479	87	172	60	98	3	59
BIRTHS	78,237	94	667	3,839	71,826	1,693	118
RATE	6.1	925.5	257.9	15.6	1.4	1.8	500.0
1985 DEATHS	534	117	193	72	119	7	26
BIRTHS	81,844	123	754	3,910	75,216	1,746	95
RATE	6.5	951.2	256.0	18.4	1.6	4.0	273.7
1986 DEATHS	479	101	166	59	100	9	44
BIRTHS	82,324	107	693	3,880	74,648	1,849	1,147
RATE	5.8	943.9	239.5	15.2	1.3	4.9	38.4

* THE FIGURES USED IN THIS TABLE CANNOT BE DIRECTLY COMPARED WITH OTHER TABLES IN THIS REPORT. NEONATAL MORTALITY STATISTICS BY BIRTHWEIGHT INCLUDE DEATHS TO INFANTS LESS THAN 28 DAYS OLD WHO WERE BORN TO RESIDENTS OF MASSACHUSETTS. DEATHS OCCURRING IN JANUARY OF THE SUBSEQUENT YEAR ARE INCLUDED IF THE BIRTH OCCURRED IN DECEMBER OF THE DATA YEAR. DEATHS OCCURRING IN JANUARY OF THE DATA YEAR ARE NOT INCLUDED IF THE BIRTH OCCURRED IN DECEMBER OF THE PREVIOUS YEAR. DENOMINATORS ARE RESIDENT BIRTHS OF THE DATA YEAR.

MARRIAGES AND DIVORCES



SECTION E

MARRIAGES AND DIVORCES

Marriages and divorces are reported by place of occurrence in Massachusetts. For example, if two Worcester residents are married in Boston, this marriage will be reported by place of occurrence rather than residence of the couple. Marriages have traditionally been reported in this manner due to the number of couples who live in different communities.

Marriages and divorces which involve Massachusetts residents but occur in other states are not included in these figures. There is no system of interstate exchange for these events as there is for births and deaths. It should be noted, however, that unlike some states, Massachusetts marriage and divorce laws neither encourage out-of-state residents to come to the state nor discourage residents from using the Massachusetts system by imposing long waiting periods, etc. This allows the marriage data to be used to estimate resident marriages.

There were 49,990 marriages in Massachusetts in 1986 compared to 49,849 in 1985, an increase of 0.3%. The rate of marriages was 8.6 per 1,000 population in 1986, the same rate as 1985. The U.S. rate of marriages per 1,000 population decreased from 10.1 per 1,000 population in 1985 to 10.0 in 1986. Of the brides, 74.6% had never previously been married. This percentage was slightly less among the grooms—73.0%.

There were 19,809 divorces granted in Massachusetts in 1986, a decrease of 8.2% from the 21,573 divorces granted in 1985. This decrease is a reflection of a change in the Massachusetts divorce law. During 1985, the amount of time before a divorce became final was reduced from six months to 90 days. This meant that individuals with court appearances in July, August, and September whose divorces would previously have been final in the next calendar year became final in 1985; therefore, 15 months of court appearances rather than 12 were included in the 1985 data. The 1986 rate of divorce per 1,000 population in Massachusetts was 3.4; this was well below the U.S. rate of 4.8 per 1,000 population.

DEFINITIONS AND RATES IMPORTANT FOR THIS SECTION INCLUDE:

MARRIAGE RATE $\frac{\text{Number of Occurrence Marriages}}{\text{Total Population}} \times 1000$

DIVORCE RATE $\frac{\text{Number of Occurrence Divorces}}{\text{Total Population}} \times 1000$



TABLE E-1
MARRIAGES AND DIVORCES BY COUNTY
1986

	MARRIAGES	DIVORCES
TOTAL	49,990	19,809
BARNSTABLE	2,002	618
BERKSHIRE	1,342	527
BRISTOL	4,221	1,948
DUKES	261	60
ESSEX	5,890	2,357
FRANKLIN	609	369
HAMDEN	3,606	1,470
HAMPSHIRE	1,067	466
MIDDLESEX	11,690	4,562
NANTUCKET	185	40
NORFOLK	4,997	1,640
PLYMOUTH	3,376	1,784
SUFFOLK	5,055	1,498
WORCESTER	5,689	2,470

FIGURE E - 1
RATES OF MARRIAGES AND DIVORCES
PER THOUSAND POPULATION
1900-1986



TABLE E-2
MARRIAGES AND DIVORCES AND RATES PER THOUSAND POPULATION
1900-1986

YEAR	MARRIAGES	RATE	DIVORCES	RATE
1900	24,342	8.7	1,258	0.45
1905	27,184	9.1	1,554	0.52
1910	30,710	9.1	1,929	0.57
1915	31,301	8.5	2,252	0.61
1920	38,048	9.9	3,647	0.95
1925	31,238	7.5	3,395	0.82
1930	27,451	6.5	3,746	0.88
1935	30,019	6.9	4,081	0.94
1940	44,836	10.4	4,502	1.04
1945	38,197	8.5	6,833	1.51
1950	41,711	8.9	6,365	1.35
1955	35,585	7.3	5,601	1.15
1960	34,050	6.6	5,592	1.08
1965	38,281	7.2	7,728	1.46
1970	47,292	8.3	10,818	1.90
1975	42,103	7.3	16,460	2.84
1980	46,273	8.1	17,873	3.12
1981	47,802	8.3	19,502	3.39
1982	48,654	8.4**	19,531	3.40
1983	48,789	8.4**	18,477	3.20**
1984	50,302	8.7**	17,123	2.95**
1985	49,849	8.6	21,573	3.71*
1986	49,990	8.6	19,809	3.40*

*THE DECREASE IN THE 1986 DIVORCE RATE REFLECTS A CHANGE IN MASSACHUSETTS DIVORCE LAW. SEE NARRATIVE AT THE BEGINNING OF THIS SECTION FOR COMPLETE EXPLANATION.

**REVISED

TABLE E-3
MARRIAGES BY AGE AND MARITAL STATUS
1986

- BRIDE -

AGE	TOTAL	%	SINGLE	%	WIDOWED	%	DIVORCED	%
TOTAL	49,990	100.0	37,318	74.6	1,136	2.3	11,536	23.1
<20	3,450	6.9	3,438	6.9	3	.0	9	.0
20-29	31,600	63.2	28,448	56.9	64	.1	3,088	6.2
30-39	10,673	21.4	4,925	9.8	202	.4	5,546	11.2
40-49	2,852	5.7	382	.8	252	.5	2,218	4.4
50-59	890	1.8	87	.2	258	.5	545	1.1
60-69	371	.7	32	.0	233	.5	106	.2
>70	154	.3	6	.0	124	.3	24	.0

- GROOM -

AGE	TOTAL	%	SINGLE	%	WIDOWED	%	DIVORCED	%
TOTAL	49,990	100.0	36,522	73.0	1,193	2.4	12,275	24.6
<20	1,116	2.2	1,114	2.2	0	.0	2	.0
20-29	28,718	57.5	26,870	53.8	14	.0	1,834	3.7
30-39	13,495	27.0	7,696	15.4	93	.2	5,706	11.4
40-49	3,981	7.9	657	1.3	161	.3	3,163	6.3
50-59	1,605	3.2	131	.2	279	.6	1,195	2.4
60-69	768	1.6	43	.1	393	.8	332	.7
>70	307	.6	11	.0	253	.5	43	.1

TABLE E-4

NUMBER OF MARRIAGES BY AGE OF BRIDE AND AGE OF GROOM

1986

AGE OF BRIDE	- AGE OF GROOM -							
	TOTAL	<20	20-29	30-39	40-49	50-59	60-69	>70
TOTAL	49,990	1,116	28,718	13,495	3,981	1,605	768	307
<20	3,450	772	2,531	131	13	1	2	0
20-29	31,600	333	23,892	6,684	623	61	6	1
30-39	10,673	9	2,190	6,041	2,027	343	58	5
40-49	2,852	2	99	617	1,194	737	184	19
50-59	890	0	5	21	120	409	283	52
60-69	371	0	1	1	4	50	211	104
>70	154	0	0	0	0	4	24	126

TABLE E-5
NUMBER OF MARRIAGES FOR BRIDE BY NUMBER OF MARRIAGES FOR GROOM
1986

NUMBER OF BRIDE MARRIAGES	NUMBER OF GROOM MARRIAGES					
	TOTAL	1	2	3	4	>5
TOTAL	49,990	36,515	11,636	1,675	146	18
1	37,318	31,593	5,190	504	27	4
2	10,974	4,479	5,553	855	81	6
3	1,531	411	806	275	33	6
4	141	29	72	34	4	2
>5	26	3	15	7	1	0

POPULATION



SECTION F

POPULATION

The population data in this section are presented for use in computing rates for small areas and for reporting changes over time by municipality, county, and health service areas. They are based primarily on the federal census for decennial years, e.g., 1960, and on the Commonwealth census for intercensal years, e.g., 1975, and on the Massachusetts Institute for Social and Economic Research (MISER) estimates for 1985 (see Table F-2).

It is worth noting that prior to 1985, the Massachusetts State Census method of enumeration differed from the federal census. Generally, the state figures excluded non-resident students and military families residing in the Commonwealth; they are included in the U.S. census definition of resident.

The Massachusetts population estimates for 1981-1986 (Table F-5) are based on the 1980 federal census and the 1990 population projections provided by MISER.



FIGURE F - 1
MASSACHUSETTS POPULATION
1900-1986

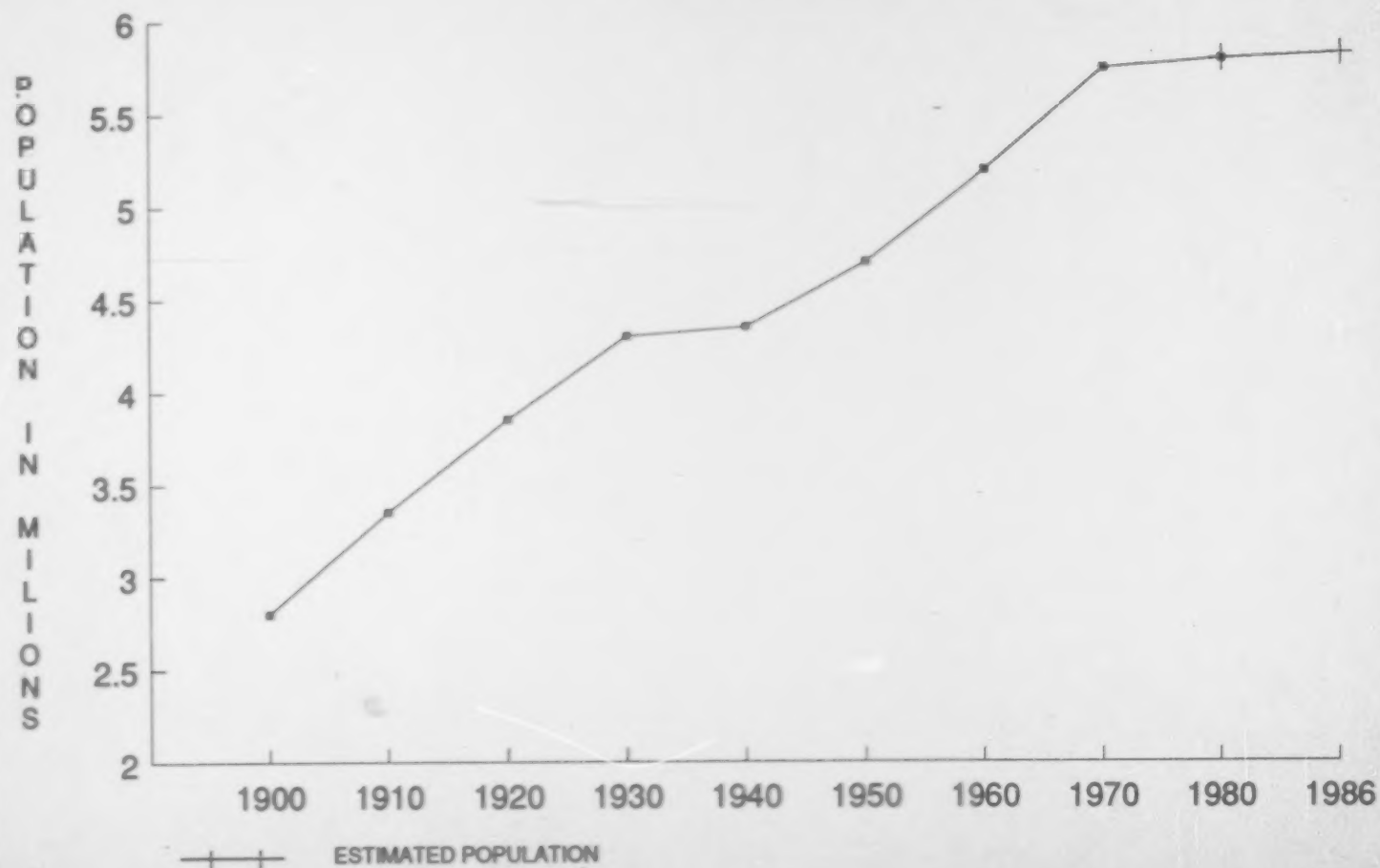


TABLE F-1
POPULATION BY RACE, AGE AND SEX
1980

AGE	SEX	TOTAL	WHITE	BLACK	OTHER & UNKNOWN
UNDER 1	MALE	36,771	32,822	2,076	1,873
	FEMALE	34,959	31,174	1,938	1,847
	TOTAL	71,730	63,996	4,014	3,720
1-4	MALE	136,258	122,083	7,454	6,721
	FEMALE	129,227	115,440	7,190	6,597
	TOTAL	265,485	237,523	14,644	13,318
5-9	MALE	191,602	173,505	9,866	8,231
	FEMALE	183,132	165,337	9,819	7,976
	TOTAL	374,734	338,842	19,685	16,207
10-14	MALE	235,669	216,445	11,636	7,588
	FEMALE	225,663	206,831	11,429	7,403
	TOTAL	461,332	423,276	23,065	14,991
15-19	MALE	274,859	253,767	12,934	8,158
	FEMALE	273,380	252,117	13,106	8,157
	TOTAL	548,239	505,884	26,040	16,315
20-24	MALE	270,713	250,616	11,558	8,539
	FEMALE	282,189	260,612	12,809	8,768
	TOTAL	552,902	511,228	24,367	17,307
25-29	MALE	239,341	221,554	9,952	7,835
	FEMALE	249,834	230,586	11,031	8,217
	TOTAL	489,175	452,140	20,983	16,052
30-34	MALE	217,649	202,785	8,306	6,558
	FEMALE	228,746	211,798	9,634	7,314
	TOTAL	446,395	414,583	17,940	13,872
35-39	MALE	169,502	158,362	6,577	4,563
	FEMALE	179,050	166,127	7,956	4,967
	TOTAL	348,552	324,489	14,533	9,530
40-44	MALE	134,925	126,332	5,013	3,580
	FEMALE	143,823	134,182	5,866	3,775
	TOTAL	278,748	260,514	10,879	7,355
45-49	MALE	134,444	127,300	4,329	2,815
	FEMALE	143,817	135,730	5,030	3,057
	TOTAL	278,261	263,030	9,359	5,872
50-54	MALE	146,211	139,828	4,057	2,326
	FEMALE	160,363	152,917	4,793	2,653
	TOTAL	306,574	292,745	8,850	4,979

TABLE F-1 (continued)
POPULATION BY RACE, AGE AND SEX
1980

AGE	SEX	TOTAL	WHITE	BLACK	OTHER & UNKNOWN
55-59	MALE	145,603	140,132	3,587	1,884
	FEMALE	165,392	159,005	4,304	2,083
	TOTAL	310,995	299,137	7,891	3,967
60-64	MALE	126,323	122,160	2,803	1,360
	FEMALE	151,061	145,859	3,510	1,692
	TOTAL	277,384	268,019	6,313	3,052
65-69	MALE	101,023	98,076	1,953	994
	FEMALE	134,551	130,398	2,810	1,343
	TOTAL	235,574	228,474	4,763	2,337
70-74	MALE	73,235	71,293	1,285	657
	FEMALE	113,806	110,942	1,892	972
	TOTAL	187,041	182,235	3,177	1,629
75-79	MALE	48,145	46,859	810	476
	FEMALE	89,683	87,573	1,441	669
	TOTAL	137,828	134,432	2,251	1,145
80-84	MALE	28,513	27,747	480	286
	FEMALE	63,667	62,351	899	417
	TOTAL	92,180	90,098	1,379	703
85 & OVER	MALE	20,107	19,485	374	248
	FEMALE	53,801	52,706	772	323
	TOTAL	73,908	72,191	1,146	571
TOTAL	MALE	2,730,893	2,551,151	105,050	74,692
	FEMALE	3,006,144	2,811,685	116,229	78,230
	TOTAL	5,737,037	5,362,836	221,279	152,922
		(100.0%)	(93.4%)	(3.9%)	(2.7%)

FIGURE F - 2
1980 MASSACHUSETTS POPULATION BY AGE

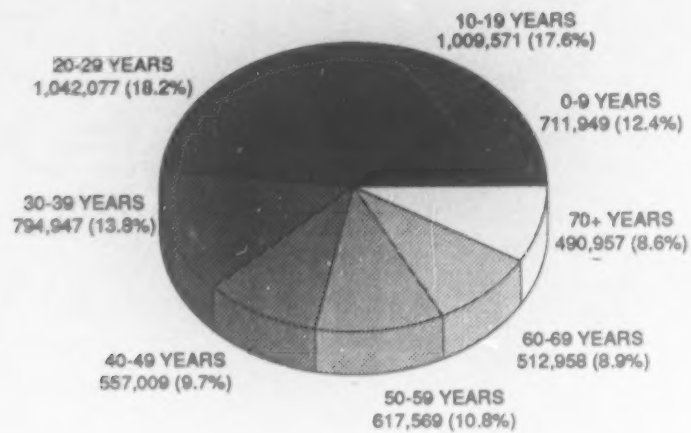


FIGURE F - 3
1980 MASSACHUSETTS POPULATION BY RACE

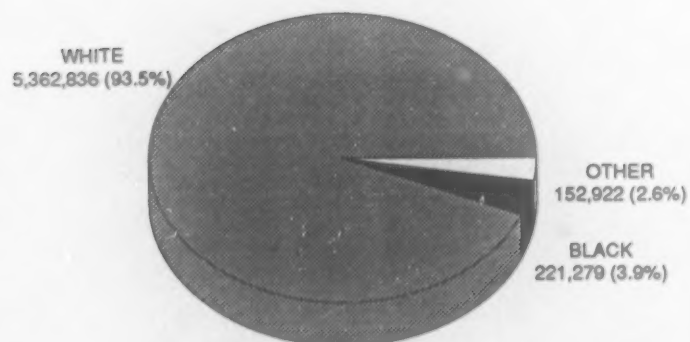


TABLE F-2
MASSACHUSETTS POPULATION BY COUNTIES
SIX CENSUS YEARS

	FEDERAL 1960	STATE 1965	FEDERAL 1970	STATE 1975	FEDERAL 1980	ESTIMATE 1985
STATE	5,148,578	5,295,281	5,689,170	5,789,478	5,737,037	5,814,873
<u>COUNTIES</u>						
BARNSTABLE	70,286	73,557	96,656	126,481	147,925	166,406
BERKSHIRE	142,135	145,597	149,402	148,069	145,110	142,694
BRISTOL	398,488	415,242	444,301	461,852	474,641	484,635
DUKES	5,829	5,948	6,117	7,951	8,942	10,476
ESSEX	568,831	608,996	637,887	631,627	633,632	641,226
FRANKLIN	54,864	57,687	59,210	63,420	64,317	65,790
HAMPDEN	429,353	435,281	459,050	461,659	443,018	441,908
HAMPSHIRE	103,229	100,065	123,981	122,729	138,813	143,661
MIDDLESEX	1,238,742	1,280,235	1,397,268	1,397,524	1,367,034	1,366,744
NANTUCKET	3,559	3,714	3,774	5,559	5,087	5,739
NORFOLK	510,256	560,137	605,051	620,346	606,587	605,013
PLYMOUTH	248,449	292,697	333,314	377,500	405,437	427,488
SUFFOLK	791,329	706,216	735,190	724,703	650,142	656,557
WORCESTER	583,228	609,909	637,969	640,058	646,352	656,536

TABLE F-3
MASSACHUSETTS POPULATION BY CITY AND TOWN
1970-1980

CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS	CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS
ABINGTON	12334	13517	BOXFORD	4032	5374
ACTION	14770	17544	BOYLSTON	2774	3470
ACUSHNET	7767	8704	BRAINTREE	35050	36337
ADAMS	11772	10381	BREWSTER	1790	5226
AGAWAM	21717	26271	BRIDGEWATER	11829	17202
ALFORD	302	394	BRIMFIELD	1907	2318
AMESBURY	11388	13971	BROCKTON	89040	95172
ANDOVER	26331	33229	BROOKFIELD	2063	2397
ANDOVER	23695	26370	BROOKLINE	58886	55062
ARLINGTON	53524	48219	BUCKLAND	1892	1864
ASHBURNHAM	3484	4075	BURLINGTON	21980	23486
ASHBY	2274	2311	CAMBRIDGE	100361	95322
ASHFIELD	1274	1458	CANTON	17100	18182
ASHLAND	8882	9165	CARLISLE	2871	3306
ATHOL	11185	10634	CARVER	2420	6988
ATTLEBORO	32907	34196	CHARLEMONT	897	1149
AUBURN	15347	14845	CHARLTON	4654	6719
AVON	5295	5026	CHATHAM	4554	6071
AYER	8325	6993	CHELMSFORD	31432	31174
BARNSTABLE	19842	30898	CHELSEA	30625	25431
BARRE	3825	4102	CHESHIRE	3006	3124
BECKET	929	1339	CHESTER	1025	1123
BEDFORD	13513	13067	CHESTERFIELD	704	1000
BELCHERTOWN	5936	8339	CHICOPEE	66676	55112
BELLINGHAM	13967	14300	CHILMARK	340	489
BELMONT	28285	26100	CLARKSBURG	1987	1871
BERKLEY	2027	2731	CLINTON	13383	12771
BERLIN	2099	2215	COHASSET	6954	7174
BERNHARDSTON	1659	1750	COLRAIN	1420	1552
BEVERLY	38348	37655	CONCORD	16148	16293
BILLERICA	31648	36727	CONWAY	999	1213
BLACKSTONE	6566	6570	CUMMINGTON	562	657
BLANDFORD	863	1038	DALTON	7505	6797
BOLTON	1905	2530	DANVERS	26151	24100
BOSTON	641071	562994	DARTMOUTH	18800	23966
BOURNE	12636	13874	DEDHAM	26938	25298
BOXBOROUGH	1451	3126	DEERFIELD	3850	4517

TABLE F-3 (CONTINUED)
MASSACHUSETTS POPULATION BY CITY AND TOWN
1970-1980

CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS	CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS
DENNIS	6454	12360	GRANVILLE	1008	1204
DIGHTON	4667	5352	GREAT BARRINGTON	7537	7405
DOUGLAS	2947	3730	GREENFIELD	18116	18436
DOVER	4529	4703	GROTON	5109	6154
DRACUT	18214	21249	GROVELAND	5382	5040
DUDLEY	8087	8717	HADLEY	3750	4125
DUNSTABLE	1292	1671	HALIFAX	3537	5513
DUXBURY	7636	11807	HAMILTON	6373	6960
EAST BRIDGEWATER	8347	9945	HAMPDEN	4572	4745
EAST BROOKFIELD	1800	1955	HANCOCK	675	643
EAST LONGMEADOW	13029	12905	HANOVER	10107	11358
EASTHAM	2043	3472	HANSON	7148	8617
EASTHAMPTON	13012	15580	HARDWICK	2379	2272
EASTON	12157	16623	HARVARD	12494	12170
EDGARTOWN	1481	2204	HARWICH	5892	8971
EGREMONT	1138	1311	HATFIELD	2825	3045
ERVING	1260	1326	HAVERHILL	46120	46865
ESSEX	2670	2998	HAWLEY	224	280
EVERETT	42485	37195	HEATH	383	482
FAIRHAVEN	16332	15759	HINGHAM	18845	20339
FALL RIVER	96898	92574	HINSDALE	1588	1707
FALMOUTH	15942	23640	HOLBROOK	11775	11140
FITCHBURG	43343	39580	HOLDEN	12564	13336
FLORIDA	672	730	HOLLAND	931	1589
FOXBOROUGH	14218	14148	HOLLISTON	12069	12622
FRAMINGHAM	64048	65113	HOLYOKE	50112	44678
FRANKLIN	17830	18217	HOPEDALE	4292	3905
FREETOWN	4270	7058	HOPKINTON	5981	7114
GARDNER	19748	17900	HUBBARDSTON	1437	1797
GAY HEAD	118	220	HUDSON	16084	16408
GEORGETOWN	5290	5687	HULL	9961	9714
GILL	1100	1259	HUNTINGTON	1593	1804
GLOUCESTER	27941	27768	IPSWICH	10750	11158
GOSHEN	483	651	KINGSTON	5999	7362
GOSHOLD	83	63	LAKEVILLE	4376	5931
GRAFTON	11659	11238	LANCASTER	6095	6334
GRANBY	5473	5380	LANESBOROUGH	2972	3131

TABLE F-5 (CONTINUED)
MASSACHUSETTS POPULATION BY CITY AND TOWN
1970-1980

CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS	CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS
LAWRENCE	64915	53175	MILLBURY	11907	11000
LEE	6426	6247	MILLIS	5606	6900
LEICESTER	9140	9446	MILLVILLE	1764	1693
LENOX	5004	6523	MILTON	27190	25060
LEHMINSTER	32939	34500	MOHIOE	216	179
LEVERETT	1005	1471	MOHSON	7355	7315
LEXINGTON	31006	29479	MONTAGUE	0451	8011
LEYDEN	376	490	MONTREY	600	610
LINCOLN	7567	7090	MONTGOMERY	446	637
LITTLETON	6300	6970	MOUNT WASHINGTON	52	93
LONGMEADOW	15630	16301	MAHANT	4119	3967
LOWELL	94239	92410	NANTUCKET	3774	5007
LUDLOW	17500	10150	NATICK	31057	29461
LUNEBURG	7419	8405	NEEDHAM	29740	27901
LYNN	90294	70471	NEW ASHFORD	103	159
LYNN FIELD	10026	11267	NEW BEDFORD	101777	90470
MALDEN	56127	53356	NEW DRAINTREE	631	671
MANCHESTER	5151	5424	NEW MARLBOROUGH	1031	1160
MANSFIELD	9939	13453	NEW SALEM	474	650
MARBLEHEAD	21295	20126	NEUBURY	3004	4529
MARION	3466	3932	NEIDURYPORT	15807	15900
MARLBOROUGH	27936	30617	NEHTON	91066	83622
MARSHFIELD	15223	20916	NORFOLK	4656	6363
MASHPEE	1200	3700	NORTH ADAMS	19195	18063
MATTAPOISETT	4500	5597	NORTH ANDOVER	16204	20129
MATHEW	9710	9590	NORTH ATTLEBORO	10665	21095
MEDFIELD	9021	10220	NORTH BROOKFIELD	3967	4150
MEDFORD	64397	50076	NORTH READING	11264	11455
MEDWAY	7938	8447	NORTHAMPTON	29664	29206
MELROSE	33100	30055	NORTHBOROUGH	9210	10560
MELROSE	2524	3100	NORTHERIDGE	11795	12246
MERRIMAC	4245	4451	NORTHFIELD	2631	2306
METHUEN	35456	36701	NORTON	9407	12690
MIDDLEBOROUGH	13607	16404	NORWELL	7796	9102
MIDDLEFIELD	200	305	NORWOOD	30015	29711
MIDDLETON	4044	4135	OAK BLUFFS	1305	1904
MILFORD	19352	23390	OAKHAM	730	994

TABLE F-3 (CONTINUED)
MASSACHUSETTS POPULATION BY CITY AND TOWN
1970-1980

CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS	CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS
ORANGE	6104	6844	SANDISFIELD	547	720
ORLEANS	3055	5306	SANDWICH	5239	8727
OTIS	820	963	SAUGUS	25110	24746
OXFORD	10345	11680	SAVOY	322	644
PALMER	11680	11389	SCITUATE	16973	17317
PAXTON	3731	3762	SEEKONK	11116	12269
PEABODY	48080	45976	SHARON	12367	13601
PELHAM	937	1112	SHEFFIELD	2374	2743
PENROKE	11193	13487	SHELBURNE	1836	2002
PEPPERELL	5887	8061	SHERBORN	3309	4049
PERU	256	633	SHIRLEY	4909	5124
PETERSHAM	1014	1024	SHERBURY	19196	22674
PHILLIPSTON	872	953	SHUTESBURY	489	1049
PITTSFIELD	57020	51974	SOMERSET	18088	18813
PLAINFIELD	287	425	SOMERVILLE	88779	77372
PLAINVILLE	4953	5857	SOUTH HADLEY	17033	16399
PLYMOUTH	18606	35913	SOUTHAMPTON	3069	4137
PLYMPTON	1224	1974	SOUTHBOROUGH	5798	6193
PRINCETON	1681	2425	SOUTHERIDGE	17057	16665
PROVINCETOWN	2911	3536	SOUTHWICK	6330	7382
QUINCY	87966	84743	SPENCER	8779	10774
RANDOLPH	27035	28218	SPRINGFIELD	163905	152319
RAYNHAM	6705	9095	STERLING	4247	5440
READING	22539	22678	STOCKBRIDGE	2312	2328
REHOBOTH	6512	7570	STONEHAM	20725	21424
REVERE	43159	42423	STOUGHTON	23459	26710
RICHMOND	1461	1659	STOW	3984	5144
ROCHESTER	1770	3205	STURBRIDGE	4878	5976
ROCKLAND	15674	15695	SUDBURY	13506	14027
ROCKFORD	5636	6345	SUNDERLAND	2236	2929
ROME	277	336	SUTTON	4590	5855
RONLEY	3048	3867	SWAMPSCOTT	13578	13837
ROYALSTON	809	955	SWANSEA	12640	15461
RUSSELL	1382	1570	TAUNTON	43756	45001
RUTLAND	3198	4334	TEMPLETON	5863	6070
SALEN	40556	38220	TEIKSBURY	22755	24635
SALISBURY	4179	5973	TISBURY	2257	2972

TABLE F-3 (CONTINUED)
MASSACHUSETTS POPULATION BY CITY AND TOWN
1970-1980

CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS	CITY/TOWN	1970 U.S. CENSUS	1980 U.S. CENSUS
TOLLAND	172	235	WESTPORT	9791	13763
TOPSFIELD	5225	5709	WESTWOOD	12750	13212
TOUENSEND	4281	7201	WEYMOUTH	54610	55601
TRURO	1234	1486	WHALEY	1145	1341
TYINGSBOROUGH	4204	5683	WHITMAN	13059	13534
TYRINGHAM	234	344	WILBRAHAM	11904	12053
UPTON	3484	3836	WILLIAMSBURG	2342	2237
UXBRIDGE	8253	8374	WILLIAMSTON	8454	8741
WAKEFIELD	25482	24895	WILMINGTON	17102	17471
WALES	852	1177	WINCHENDON	6635	7019
WALPOLE	18149	18859	WINCHESTER	22269	20701
WALTHAM	61582	58288	WINDSOR	468	598
WARE	8187	8953	WINTHIROP	20335	19294
WAREHAM	11492	10457	WOBURN	37406	36626
WARREN	3633	3777	WORCESTER	176572	161799
WARWICK	492	603	NORTHINGTON	712	932
WASHINGTON	406	587	WRENTHAM	7315	7580
WATERTOWN	39307	34384	YARMOUTH	12033	18449
WAYLAND	13461	12170			
WEBSTER	14917	14480			
WELLESLEY	28051	27209			
WELLFLEET	1743	2289			
WENDELL	485	696			
WENHAM	3849	3897			
WEST BOYLSTON	6349	6204			
WEST BRIDGEMATER	7152	6359			
WEST BROOKFIELD	2653	3026			
WEST HENSBURY	2254	2861			
WEST SPRINGFIELD	28461	27042			
WEST STOCKBRIDGE	1354	1280			
WEST TISBURY	453	1010			
WESTBOROUGH	12594	13619			
WESTFIELD	31433	36465			
WESTFORD	18368	13434			
WESTHAMPTON	793	1137			
WILMINGTON	4273	5139			
WESTON	10870	11169			
			STATEWIDE TOTALS	5,689,170	5,737,837

TABLE F-4
MASSACHUSETTS POPULATION BY HEALTH SERVICE AREA
1970-1980

HSA SUBAREAS	1970 U.S. CENSUS	1980 U.S. CENSUS
11	149,906	145,674
12	158,345	175,257
13	497,219	482,586
HSA I TOTALS	805,466	803,517
21	208,593	216,595
22	245,693	235,536
23	211,838	228,390
HSA II TOTALS	666,124	680,521
31	214,152	226,991
32	142,390	146,375
33	105,541	114,518
HSA III TOTALS	462,043	487,884
41	794,076	705,204
42	477,986	456,914
43	489,096	478,314
44	159,815	164,082
45	304,155	305,625
HSA IV TOTALS	2,225,128	2,110,139
51	75,951	87,291
52	182,672	204,088
53	98,767	139,630
54	92,766	104,343
55	141,687	147,669
56	154,495	159,704
57	117,956	180,348
HSA V TOTALS*	864,294	1,023,073
61	105,943	107,914
62	140,126	132,557
63	143,927	132,268
64	113,110	110,507
65	163,009	148,657
HSA VI TOTALS	666,115	631,903
STATEWIDE TOTALS	5,689,170	5,737,037
*INCLUDES ACTIVE AND INACTIVE SUBAREA COUNCILS.		

TABLE F-5
POPULATION PROJECTIONS, MASSACHUSETTS*
1980-1986

AGE GROUP		TOTAL	MALE	FEMALE
0-4	1980	337,215	173,029	164,186
	1981	342,815	175,696	167,119
	1982	348,357	178,322	170,035
	1983	353,950	180,977	172,973
	1984	359,499	183,609	175,890
	1985	365,227	186,336	178,891
	1986	370,644	188,911	181,733
5-9	1980	374,734	191,602	183,132
	1981	382,783	195,479	187,304
	1982	390,776	199,324	191,452
	1983	398,807	203,201	195,606
	1984	406,798	207,044	199,754
	1985	414,982	210,993	203,989
	1986	422,817	214,769	208,048
10-14	1980	461,332	235,669	225,663
	1981	448,375	228,815	219,560
	1982	435,497	222,005	213,492
	1983	422,551	215,154	207,397
	1984	409,663	208,337	201,326
	1985	396,601	201,433	195,168
	1986	383,806	194,672	189,134
15-19	1980	548,239	274,859	273,380
	1981	531,132	265,930	265,202
	1982	514,073	257,012	257,061
	1983	496,969	248,091	248,878
	1984	479,891	239,169	240,722
	1985	462,673	230,178	232,495
	1986	445,754	221,347	224,407
20-24	1980	592,902	270,713	282,189
	1981	542,736	265,216	277,520
	1982	532,642	259,763	272,879
	1983	522,468	254,260	268,208
	1984	512,367	248,792	263,575
	1985	502,121	243,261	258,860
	1986	492,076	237,835	254,241
25-29	1980	489,175	239,341	249,834
	1981	493,044	240,846	252,198
	1982	496,921	242,357	254,564
	1983	500,792	243,854	256,938
	1984	504,652	245,353	259,299
	1985	508,596	246,889	261,707
	1986	512,411	248,366	264,045
30-34	1980	446,395	217,649	228,746
	1981	457,542	224,039	233,503
	1982	468,636	230,411	238,225
	1983	479,789	236,803	242,986
	1984	490,905	243,186	247,719
	1985	502,135	249,625	252,510
	1986	513,131	255,936	257,195

TABLE F-5 (continued)
POPULATION PROJECTIONS, MASSACHUSETTS*
1980-1986

AGE GROUP		TOTAL	MALE	FEMALE
35-39	1980	348,552	169,502	179,050
	1981	359,341	174,328	185,013
	1982	370,113	179,129	190,984
	1983	380,898	183,950	196,948
	1984	391,654	188,748	202,906
	1985	402,564	193,633	208,931
	1986	413,195	198,363	214,832
40-44	1980	278,748	134,925	143,823
	1981	292,647	141,203	151,444
	1982	306,457	147,434	159,023
	1983	320,348	153,710	166,638
	1984	334,166	159,940	174,226
	1985	348,205	166,286	181,919
	1986	361,903	172,459	189,444
45-49	1980	278,261	134,444	143,817
	1981	282,833	136,275	146,558
	1982	287,346	138,073	149,273
	1983	291,899	139,901	151,998
	1984	296,417	141,708	154,709
	1985	301,088	143,582	157,506
	1986	305,517	145,343	160,174
50-54	1980	306,574	146,211	160,363
	1981	301,594	143,584	158,010
	1982	296,655	140,958	155,697
	1983	291,665	138,318	153,347
	1984	286,727	135,704	151,023
	1985	281,677	133,039	148,638
	1986	276,790	130,444	146,346
55-59	1980	310,995	145,603	165,392
	1981	305,203	142,750	162,453
	1982	299,475	139,931	159,544
	1983	293,700	137,078	156,622
	1984	287,965	134,260	153,705
	1985	282,086	131,356	150,730
	1986	276,401	128,548	147,853
60-64	1980	277,384	126,323	151,061
	1981	276,091	125,512	150,579
	1982	274,784	124,707	150,077
	1983	273,496	123,894	149,602
	1984	272,181	123,073	149,108
	1985	270,891	122,260	148,631
	1986	269,624	121,478	148,146
65-69	1980	235,574	101,023	134,551
	1981	238,038	101,871	136,167
	1982	240,454	102,695	137,759
	1983	242,917	103,538	139,379
	1984	245,344	104,370	140,974
	1985	247,853	105,241	142,612
	1986	250,240	106,059	144,181

TABLE F-5 (continued)
POPULATION PROJECTIONS, MASSACHUSETTS*
1980-1986

AGE GROUP		TOTAL	MALE	FEMALE
70-74	1980	187,041	73,235	113,806
	1981	189,630	74,235	115,395
	1982	192,183	73,222	116,961
	1983	194,759	76,222	118,537
	1984	197,323	77,210	120,113
	1985	199,983	78,250	121,733
	1986	202,448	79,192	123,256
75-79	1980	137,828	48,145	89,683
	1981	140,300	48,986	91,304
	1982	142,752	49,844	92,908
	1983	145,222	50,699	94,523
	1984	147,694	51,545	96,149
	1985	150,251	52,437	97,814
	1986	152,579	53,227	99,352
80-84	1980	92,180	28,513	63,667
	1981	93,363	28,809	64,554
	1982	94,522	29,101	65,421
	1983	95,692	29,393	66,299
	1984	96,841	29,682	67,159
	1985	98,073	29,995	68,078
	1986	99,160	30,242	68,918
85+	1980	73,908	20,107	53,801
	1981	75,099	20,191	54,908
	1982	76,276	20,277	55,999
	1983	77,449	20,351	57,098
	1984	78,611	20,426	58,185
	1985	79,867	20,539	59,328
	1986	81,008	20,614	60,394
TOTALS	1980	5,737,037	2,730,893	3,006,144
	1981	5,752,566	2,733,775	3,018,791
	1982	5,767,919	2,736,565	3,031,354
	1983	5,783,371	2,739,394	3,043,977
	1984	5,798,698	2,742,156	3,056,542
	1985	5,814,873	2,745,333	3,069,540
	1986	5,829,504	2,747,805	3,081,699

*THESE ESTIMATES ARE DERIVED FROM 1980 U.S. CENSUS COUNT AND PROJECTIONS FOR 1990 PREPARED BY THE MASSACHUSETTS INSTITUTE FOR SOCIAL AND ECONOMIC RESEARCH (MISER).

APPENDICES

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NOTE: Confidential section is detached from record and is not maintained in public file.

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C		H		I		L		D		F		M								
PLACE OF BIRTH		(Country)		CITY OR TOWN		NAME OF HOSPITAL - IF NOT IN HOSPITAL, NUMBER & STREET		REGISTERED NUMBER		FATHER'S FULL NAME		MOTHER'S FULL NAME								
2 NAME		FIRST		MIDDLE		LAST		3 SEX		4 THIS BIRTH SINGLE, TWIN ETC. SPECIFY		5 DATE OF BIRTH								
												6 MONTH DAY YEAR								
7 BIRTHPLACE		CITY OR TOWN		STATE OR COUNTRY		8 AGE AT TIME OF THIS BIRTH		9 FATHER'S OCCUPATION		10 MOTHER'S OCCUPATION		11 AGE AT TIME OF THIS BIRTH								
12 RESIDENCE		NO. STREET		CITY OR TOWN		COUNTY		STATE		ZIP CODE		13								
		(DO NOT USE MAILING ADDRESS)																		
CERTIFICATIONS																				
14 CERTIFIER							15 INFORMANT													
☐ M.D./D.O. - ATTENDANT AT BIRTH ☐ ATTENDANT - IF OTHER THAN M.D./D.O. ☐ POST NATAL ONLY ☐ ATTENDANT - C.N.M. (Signature, Physician or other attendant) (Print or type name: Ch 46 SEC 3 & 9) (Address)							I certify that the information appearing above is true and correct. (Signature) (Relationship) (Date) (Present mailing address if different from item # 13)													
16 REC'D IN CLERK'S OFFICE							17 SUPPLEMENT FILED							18						

NOT A LEGAL RECORD

CONFIDENTIAL INFORMATION - CHAPTER III SECTION 24B AS AMENDED
PHYSICIAN TO COMPLETE ITEMS IN RED WITHIN 24 HOURS (CH. 46 SEC. 3)

HOSPITAL CODE NO.

19 RACE - FATHER WHITE, BLACK, AMERICAN INDIAN, ETC. (SPECIFY)		20 EDUCATION - FATHER (Specify only highest grade completed) Elementary or Secondary (10-12) College (1 - 4 or 5+)		PREGNANCY HISTORY (Complete each section)			
22 RACE - MOTHER WHITE, BLACK, AMERICAN INDIAN, ETC. (SPECIFY)		23 EDUCATION - MOTHER (Specify only highest grade completed) Elementary or Secondary (10-12) College (1 - 4 or 5+)		LIVE BIRTHS (Do not include this child) NOW LIVING NOW DEAD		OTHER TERMINATIONS (Spontaneous and Induced) BEFORE 20 WEEKS AFTER 20 WEEKS	
24 DATE LAST NORMAL MENSTRUATION BEGAN MONTH DAY YEAR		25 MONTH OF PREGNANCY PRENATAL CARE BEGAN (FIRST, SECOND, THIRD, ETC., SPECIFY)		26 PRENATAL VISITS TOTAL NUMBER (IF NONE, SO STATE)		27	
28 COMPLICATIONS RELATED TO PREGNANCY (Describe or write "None")				29 CONCURRENT ILLNESSES OR CONDITIONS AFFECTING THE PREGNANCY (Describe or write "none")			
29 COMPLICATION OF LABOR AND/OR DELIVERY A. (Describe or write "None") B. Cesarean (Check One) ☐ No ☐ Primary ☐ Repeat				30 CONGENITAL MALFORMATIONS OR ANOMALIES OF CHILD (Describe or write "None")			
31 BIRTH WEIGHT lbs. ozs. or grams		32 APGAR SCORE a. 1 min. b. 5 min.		33 IS MOTHER MARRIED? (Specify yes or no)		34 PATIENT CARE ☐ PRIV. ☐ OTHER ☐ M.I.C.	
						35 AT TIME OF THIS REPORT ☐ CHILD LIVING ☐ DEAD	

Detach and Return to Department of Public Health - Registry of Vital Records and Statistics.

150 Tremont Street; Room 8-3, Boston, MA 02111

***Effective through May 31, 1986

1. RECORD NUMBER
25610019. CERTIFICATE NUMBER
(DPH USE ONLY)

2. FACILITY NUMBER

NOTE: Confidential section is
detached from record and is
not maintained in public file.
125M FORM B-3 4/87-8/7721

C PLACE OF BIRTH	3C. COUNTY	3D. CITY/TOWN MAKING RETURN	
	3B. CITY/TOWN	3E. REGISTERED NUMBER	
I	3A. FACILITY NAME—IF NOT IN FACILITY, NUMBER AND STREET		
L	NAME 4A. FIRST	4B. MIDDLE	4C. LAST
D	5. SEX	6A. PLURALITY (Specify Single, Twin, etc.)	6B. BIRTH ORDER (Specify First, First Second, etc.)
M MOTHER'S BIRTH	NAME 9A. FIRST		9B. MIDDLE
	9C. LAST		9D. SURNAME AT MOTHER'S BIRTH
	BIRTHPLACE 10A. CITY/TOWN		10B. STATE/COUNTRY
N NATURALIZATION	RESIDENCE 12A. NUMBER AND STREET		12B. CITY/TOWN
	12C. COUNTY		12D. STATE
	12E. ZIP CODE		
P PATERNITY	NAME 13A. FIRST		13B. MIDDLE
	13C. LAST		
	BIRTHPLACE 14A. CITY/TOWN		14B. STATE/COUNTRY
S SIGNATURE	15A. I (WE) CERTIFY THAT THE INFORMATION APPEARING ABOVE IS TRUE AND CORRECT (Signatures/ies)		15B. RELATIONSHIP
	15C. DATE SIGNED (Month, Day, Year)		15D. MAILING ADDRESS (If different from home address)
	NUMBER AND STREET		CITY STATE ZIP CODE
T TITLE	17A. TYPE ☐ AT BIRTH ☐ POST-NATAL ☐ CERTIFIER ONLY		17B. TITLE ☐ MD/DO ☐ CNM ☐ OTH. RN ☐ MIDWIFE ☐ OTHER
	17C. SIGNATURE		17D. TYPE OR PRINT NAME (CH 46, SEC 36B)
	17E. NO. & STREET		17F. CITY/TOWN
U UNIVERSITY	17G. STATE		17H. ZIP CODE
	17I. DATE SIGNED (Month, Day, Year)		
	18. DATE OF RECORD (Month, Day, Year)		19. SUPPLEMENT FILED (Month, Day, Year)
V VERIFICATION	20. CLERK/REGISTRAR		
	21. CLERK/REGISTRAR DPH USE ONLY		
	NOT A LEGAL RECORD		

22. CENSUS

CONFIDENTIAL INFORMATION — CHAPTER 111 SECTION 24B AS AMENDED — PHYSICIAN TO COMPLETE ITEMS IN RED WITHIN 24 HOURS (CHAP. 46 SEC. 3)

23A. OCCUPATION PAST YEAR	23B. INDUSTRY PAST YEAR	24A. RACE ☐ White ☐ Black ☐ Asian Indian ☐ Other Asian ☐ Amer. Indian ☐ Other (Specify)	24B. ANCESTRY	25. EDUCATION A. Elem./Sec. (0-12) B. College (0-4,5+)
26A. OCCUPATION PAST YEAR	26B. INDUSTRY PAST YEAR	27A. RACE ☐ White ☐ Black ☐ Asian Indian ☐ Other Asian ☐ Amer. Indian ☐ Other (Specify)	27B. ANCESTRY	28. EDUCATION A. Elem./Sec. (0-12) B. College (0-4,5+)
PREGNANCY HISTORY		29. PRIOR LIVE BIRTHS: A. NOW LIVING B. BORN LIVE-NOW DEAD C. DATE OF LAST LIVE BIRTH (Month, Day, Year)	30. TERMINATIONS: A. BEFORE 20 WKS. B. 20 WKS. OR MORE	DATE LAST TERMINATION (Month, Day, Year)
(Complete All Sections)		☐ NONE ☐ NONE	☐ NONE ☐ NONE	
31. DATE LAST MENSES BEGAN (Month, Day, Year)	32. MONTH OF PREG. PRENATAL CARE BEGAN (First Second etc.)	33. TOTAL NUMBER PRENATAL VISITS # ☐ NONE	34A. TYPE OF PRACTITIONER PROVIDING PRENATAL CARE: ☐ MD/DO ☐ PA ☐ NP ☐ CNM ☐ OTHER RN ☐ MIDWIFE ☐ OTHER (Specify)	
34B. SITE OF PRENATAL CARE: ☐ PRIVATE ☐ HOSP CLINIC ☐ HMO ☐ CHC ☐ OTHER (Specify)	34C. PRENATAL CARE METHOD OF PAYMENT: ☐ BLUE CROSS ☐ COMM. INS. ☐ HMO ☐ MEDICAID ☐ MEDICARE ☐ HEALTHY START ☐ OTHER GOV'T ☐ WORK COMP ☐ SELF-PAY ☐ FREE CARE ☐ OTHER (Specify)	35A. ALCOHOL	35B. TOBACCO	
35C. OTHER CONCURRENT CONDITIONS (Separate by commas—include up to 8 items)				
36. METHOD OF DELIVERY: ☐ VAGINAL AFTER PRIOR C-SECTION ☐ FORCEPS/VACUUM ☐ SPONTANEOUS ☐ PRIMARY C-SECTION ☐ REPEAT C-SECTION ☐ OTHER (Specify)				
37. COMPLICATIONS OF LABOR (Separate by commas—include up to 10 items)				
38. OBSTETRIC PROCEDURES (Separate by commas—include up to 10 items)				
39. DELIVERY METHOD OF PAYMENT: ☐ BLUE CROSS ☐ COMM. INS. ☐ HMO ☐ MEDICAID ☐ MEDICARE ☐ HEALTHY START ☐ OTHER GOV'T ☐ WORK COMP ☐ SELF-PAY ☐ FREE CARE ☐ OTHER (Specify)				40. BIRTHWEIGHT LBS. OZ. OR GRAMS
41. APGAR SCORE (0-10) A. 1 Minute B. 5 Minute		42. CONGENITAL MALFORMATIONS (Include up to 5 items)		
43. CONDITIONS OF NEWBORN (Include up to 5 items)				
44. AT TIME OF THIS REPORT, CHILD IS: ☐ LIVING ☐ DEAD		45. IS MOTHER MARRIED? ☐ YES ☐ NO		46. IS MOTHER BREASTFEEDING? ☐ YES ☐ NO

Detach and Return to Department of Public Health — Registry of Vital Records and Statistics,
180 Tremont Street, Room B-3, Boston, MA 02111

*** Effective June 1, 1986

(INSTRUCTIONS ON REVERSE SIDE)
FOR USE BY
PHYSICIANS AND
MEDICAL EXAMINERS

The Commonwealth of Massachusetts

STANDARD CERTIFICATE OF DEATH
REGISTRY OF VITAL RECORDS AND STATISTICS

REGISTERED NUMBER

STATE USE ONLY

STATE USE ONLY
1.
72 PLACE 74
75 HOSPITAL 78
2.
9 RACE
19 NATIVITY 20
32 RESIDENCE 34
OUT OF STATE 37
35 CENSUS 41
42 AUTOPSY
43 MED. EXAM.

DECEDENT

INFORMANT

DISPOSITION

CAUSE OF DEATH

CERTIFIER

DECEDENT - NAME FIRST MIDDLE LAST		SEX	DATE OF DEATH (Mo. Day Yr.)	
PLACE OF DEATH (CITY OR TOWN)		COUNTY OF DEATH	HOSPITAL OR OTHER INSTITUTION - Name (if not in either give street and number)	
RACE (e.g. White Black American Indian etc.) (Specify)		AGE - Last Birthday (Yrs.)	UNDER 1 YEAR MOS. DAYS HOURS MINS	DATE OF BIRTH (Mo. Day Yr.)
MARRIED - NEVER MARRIED WIDOWED OR DIVORCED		SPOUSE (if wife give maiden name)		STATE OF BIRTH (if not in U.S.A. name country)
SOCIAL SECURITY NUMBER		IF U.S. WAR VETERAN SPECIFY WAR		USUAL OCCUPATION (Prior - If Retired)
FATHER - FULL NAME		STATE OF BIRTH (if not in U.S.A. name country)		KIND OF BUSINESS OR INDUSTRY
MOTHER - NAME (GIVEN) MAIDEN		STATE OF BIRTH (if not in U.S.A. name country)		RESIDENCE - STREET AND NUMBER CITY OR TOWN COUNTY STATE ZIP CODE
INFORMANT - NAME AND ADDRESS		RELATIONSHIP		
TYPE OF DISPOSITION (Specify Burial, Cremation, Other)		DATE OF DISPOSITION		PLACE OF DISPOSITION AND LOCATION CITY OR TOWN STATE
FUNERAL SERVICE LICENSEE		NAME OF FACILITY		ADDRESS OF FACILITY
IMMEDIATE CAUSE (ENTER ONLY ONE CAUSE PER LINE FOR (a), (b), AND (c)) (PRINT OR TYPE LEGIBLY)		Interval between onset and death		
PART I		Interval between onset and death		
DUE TO OR AS A CONSEQUENCE OF		Interval between onset and death		
DUE TO OR AS A CONSEQUENCE OF		Interval between onset and death		
OTHER SIGNIFICANT CONDITIONS - Conditions contributing to death but not stated in cause given in Part I(a)		AUTOPSY (Yes or No)		WAS CASE REFERRED TO MED. EXAM. Yes or No
ACC. SUICIDE - HOW UNDET. OR PENDING INVEST. (Specify)		DATE OF INJURY (Mo. Day Yr.)		HOUR OF INJURY
INJURY AT WORK (Specify Yes or No)		PLACE OF INJURY - At home, farm, street, factory, office, building, etc. (Specify)		LOCATION STREET CITY OR TOWN STATE
25a To the best of my knowledge, death occurred at the time, date and place and due to the cause(s) stated		25b On the basis of examination and/or investigation in my opinion death occurred at the time, date and place and due to the cause(s) stated		
DATE SIGNED (Mo. Day Yr.)		HOUR OF DEATH		
NAME OF ATTENDING PHYSICIAN IF OTHER THAN CERTIFIER (Type or Print)		PRONOUNCED DEAD (Mo. Day Yr.)		PRONOUNCED DEAD (How)
NAME AND ADDRESS OF CERTIFYING PHYSICIAN OR MEDICAL EXAMINER (Type or Print)		ON		AT
BURIAL PERMIT ISSUED ON		RECEIVED IN THE CITY OR TOWN OF		
SIGNATURE - DO HEALTH AGT.		CLERK'S SIGNATURE		DATE RECEIVED

BLACK INK ONLY

R-301R

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS

REPORT OF FETAL DEATH

HOSPITAL - NAME (If not in hospital, give street and number)				CITY, TOWN OR LOCATION OF DELIVERY		STATE FILE NUMBER	
DATE OF DELIVERY (Month Day Year)				HOUR OF DELIVERY		SEX OF FETUS	
MOTHER - Maiden Name FIRST MIDDLE LAST				AGE (at time of this delivery)		RESIDENCE - STATE	
CITY, TOWN OR LOCATION				STREET AND NUMBER		COUNTY	
RACE - Is he White, Black, American Indian, etc.?				EDUCATION (Specify only highest grade completed)		DATE LAST MENSTRUATION BEGAN (Month Day Year)	
MOTHER - Is she White, Black, American Indian, etc.?				DATE LAST MENSTRUATION BEGAN (Month Day Year)		IS MOTHER "MARRIED" (Specify yes or no)	
PREGNANCY HISTORY (Complete each section)				LIVE BIRTHS		OTHER TERMINATIONS (Specify trimester and method)	
1. Number				2. Number		3. Before 20 weeks	
4. After 20 weeks				5. Before 20 weeks		6. After 20 weeks	
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FORM R-101

NOT VALID AFTER _____

THIS IS A PERMANENT RECORD. Use only durable black ink or approved black typewriter ribbon. Every item of information should be carefully supplied. ALTERATIONS AND ERASURES IN THIS CERTIFICATE ARE FORBIDDEN. PENALTY FOR VIOLATION, ONE HUNDRED DOLLARS. SEE CHAP. 207, §§ 28, 28A, 48, 49, 54, 57 and CHAP. 46, § 18.

THIS CERTIFICATE IS NOT TO BE USED OUTSIDE OF MASSACHUSETTS.



The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC HEALTH
REGISTRY OF VITAL RECORDS AND STATISTICS

(State number 812)

CERTIFICATE OF MARRIAGE

(City or town making return)

This certificate must be delivered to the person before whom the marriage is to be contracted before he proceeds to solemnize the same

1 Place of Marriage

City or Town _____
(Do not enter name of village or section of city or town)

2 Date of Marriage

(Month) (Day) (Year)

Intention No. _____

Registered No. _____

3 FULL NAME GROOM		12 FULL NAME BRIDE	
3A SURNAME AFTER MARRIAGE		12A SURNAME AFTER MARRIAGE	
4 AGE	5 OCCUPATION	13 AGE	14 OCCUPATION
6 RESIDENCE NO. STREET CITY OR TOWN STATE		15 RESIDENCE NO. STREET CITY OR TOWN STATE	
7 NUMBER OF MARRIAGE (1st, 2nd, 3rd, etc.)	8 WIDOWED OR DIVORCED	16 NUMBER OF MARRIAGE (1st, 2nd, 3rd, etc.)	17 WIDOWED OR DIVORCED
9 BIRTHPLACE (City or town) (State or country)		18 BIRTHPLACE (City or town) (State or country)	
10 NAME OF FATHER		19 NAME OF FATHER	
11 MAIDEN NAME OF MOTHER		20 MAIDEN NAME OF MOTHER	
21 THE INTENTION OF MARRIAGE by the above-named persons was duly entered by me in the records of the _____ (City or Town) of _____ (Name of city or town) according to law, this _____ day of _____ 19____ Certificate issued _____ (Month) (Day) (Year) by _____ (City or Town Clerk or Registrar)			
22 I HEREBY CERTIFY that I joined the above-named persons in marriage at No. _____ St. _____ (If marriage was solemnized in a church, give its NAME instead of street and number) _____ on _____ (Month) (Day) (Year) _____ Signature _____ (Print or type name) _____ Official station _____ (Minister of the Gospel, Clergyman, Priest, Rabbi, or Justice of the Peace) _____ Residence No. _____ St., City or Town of _____			
23 Certificate received by city or town clerk _____ (Month) (Day) (Year) _____ CLERK OR REGISTRAR			

The Commonwealth of Massachusetts
 DEPARTMENT OF PUBLIC HEALTH
 REGISTRY OF VITAL RECORDS AND STATISTICS
**CERTIFICATE OF ABSOLUTE
 DIVORCE OR ANNULMENT**
 (Chap. 208, Sec. 46 G.L.)
 R-408

HUSBAND - NAME		FIRST	MIDDLE	LAST
USUAL RESIDENCE - STREET ADDRESS			CITY, TOWN OR LOCATION	
To COUNTY	State	To DATE OF BIRTH (Mo., Day, Yr.)	NUMBER OF THIS MARRIAGE (1st, 2nd, 3rd, 4th, 5th)	
To To	To	To	To	
WIFE - NAME		FIRST	MIDDLE	LAST
USUAL RESIDENCE - STREET ADDRESS			CITY, TOWN OR LOCATION	
To COUNTY	State	To DATE OF BIRTH (Mo., Day, Yr.)	NUMBER OF THIS MARRIAGE (1st, 2nd, 3rd, 4th, 5th)	
To To	To	To	To	
DATE OF THIS MARRIAGE (Mo., Day, Yr.)	NUMBER OF CHILDREN BORN ALIVE OF THIS MARRIAGE		NUMBER OF CHILDREN UNDER AGE 18 IN THIS FAMILY	
To	To		To	

FOR COURT USE ONLY		
COUNTY OF JUDGMENT		TITLE OF COURT
To DATE OF JUDGMENT (Mo., Day, Yr.)	To TYPE OF JUDGMENT - DIVORCE OR ANNULMENT (Specify)	To DATE OF JUDGMENT ABSOLUTE (Mo., Day, Yr.)
To DOCKET NUMBER	To NAME OF PLAINTIFF	To CAUSE FOR WHICH GRANTED
To SIGNATURE OF CERTIFYING OFFICIAL	To TITLE OF OFFICIAL	
To	To	

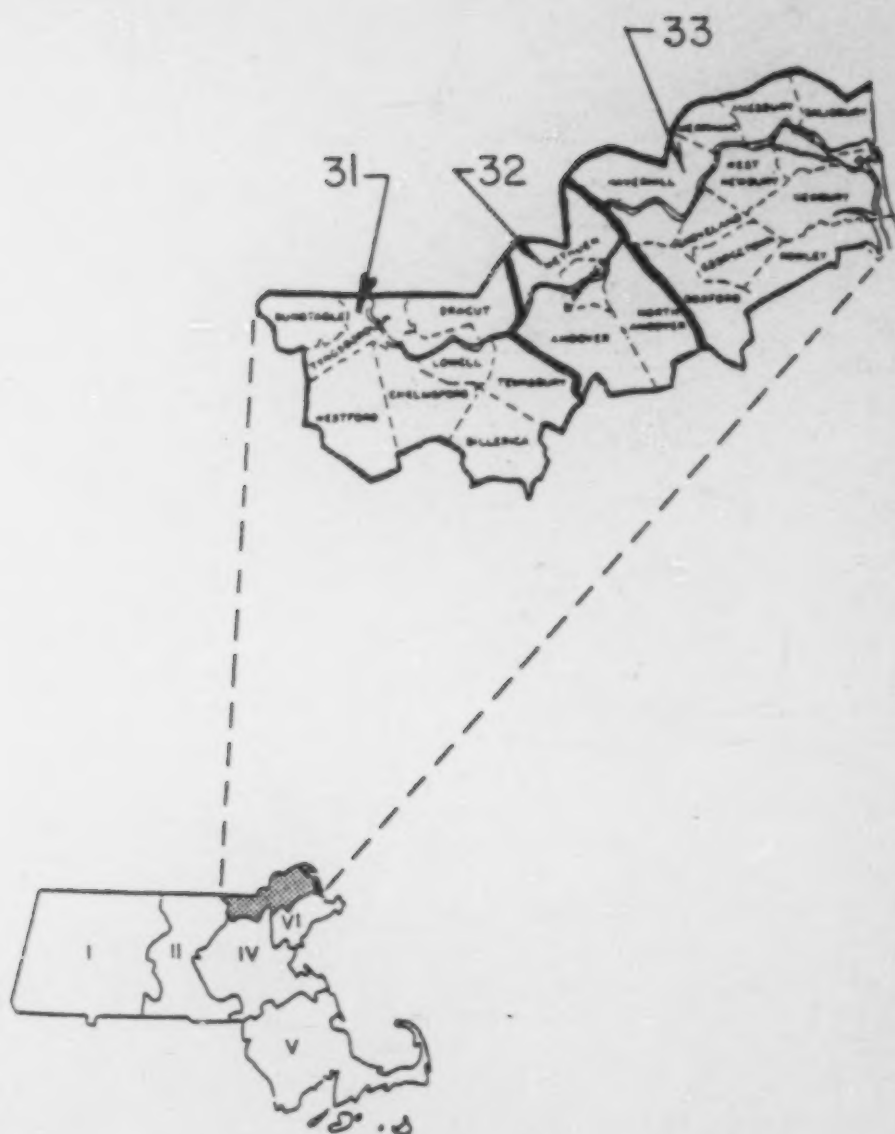
HEALTH SERVICE AREA I



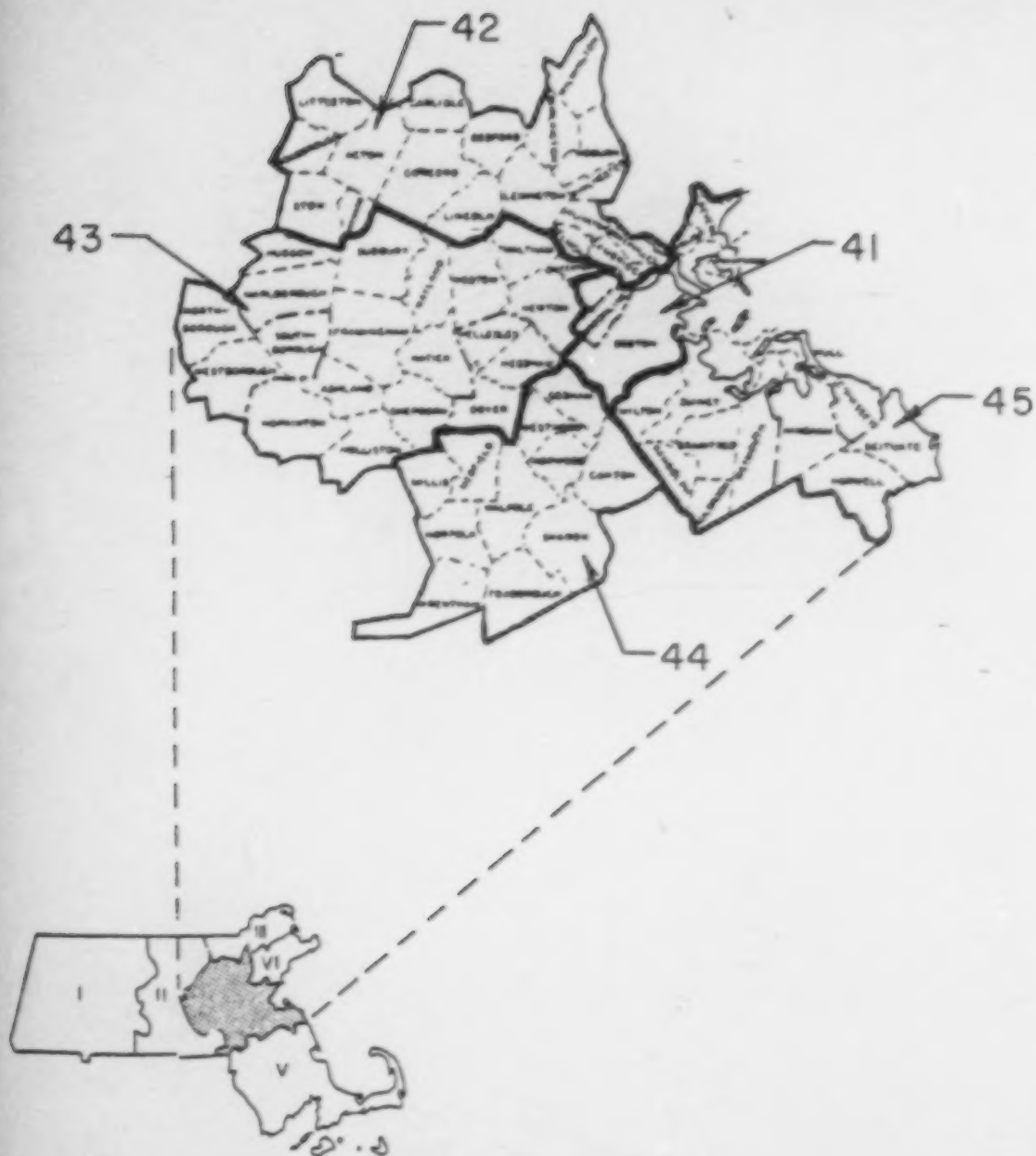
HEALTH SERVICE AREA II



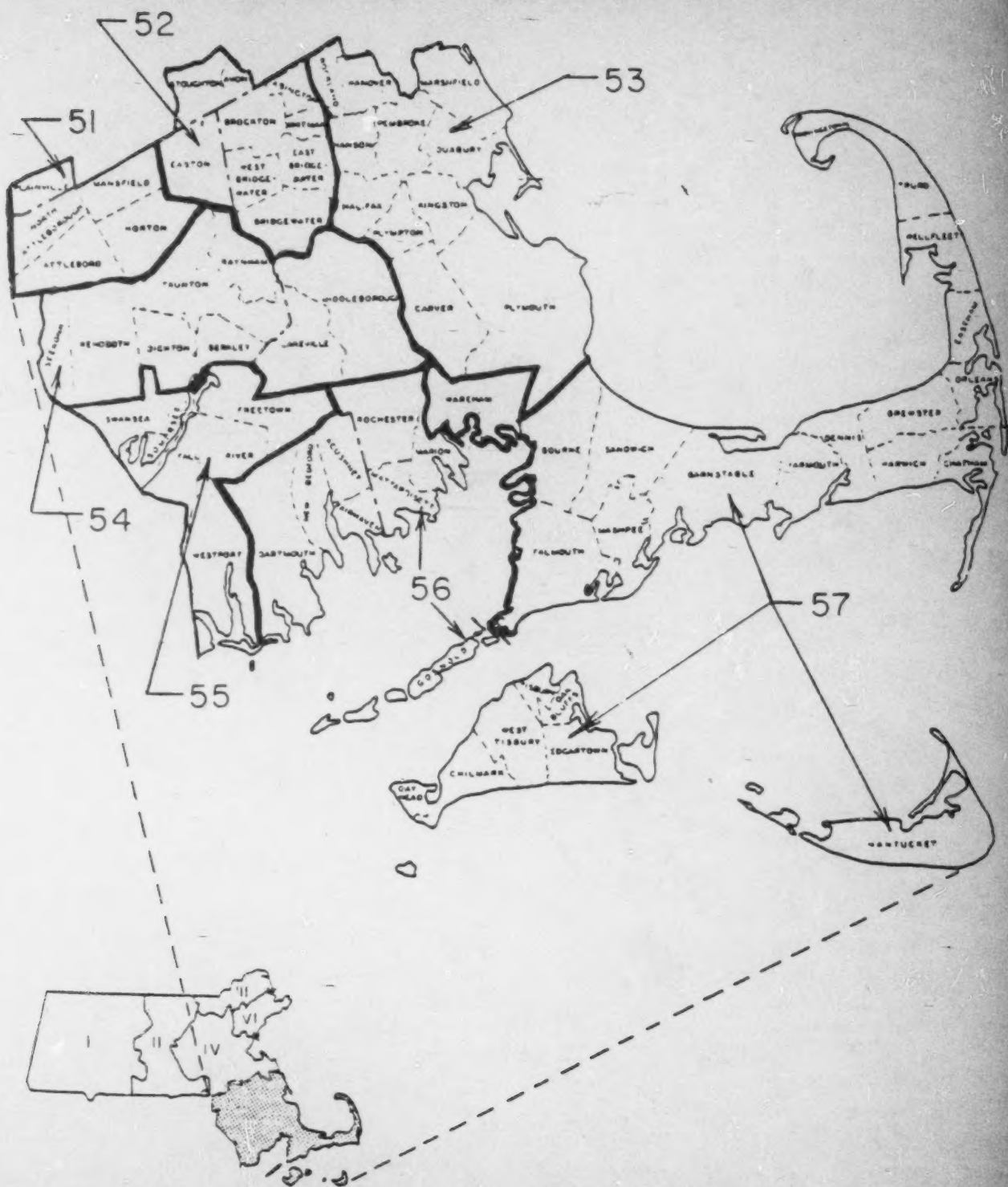
HEALTH SERVICE AREA III



HEALTH SERVICE AREA IV



HEALTH SERVICE AREA V*



*INCLUDES ACTIVE AND INACTIVE SUBAREA COUNCILS.



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